

1. Assignment: Install Virtualbox/VMware Workstation with different flavours of linux or windows OS on windows.

Download and Install VirtualBox

To download the VirtualBox, follow the instructions below.

Step 1: To download the latest version of VirtualBox, visit the official [VirtualBox](https://www.virtualbox.org/) website in your web browser.

Step 2: Now, download the VirtualBox from here.



Step 3: Navigate the folder where you have downloaded your VirtualBox and double-click on the downloaded "VirtualBox" file to run it.

Step 4: "Oracle VM VirtualBox 6.1.6 Setup" window will appear on the screen and click on the "Next" button to proceed.

Step 5: Choose the location where you want to install the VirtualBox and click on the "Next" button to proceed.

Step 6: Choose the options as per your choice and click on the "Next" button.

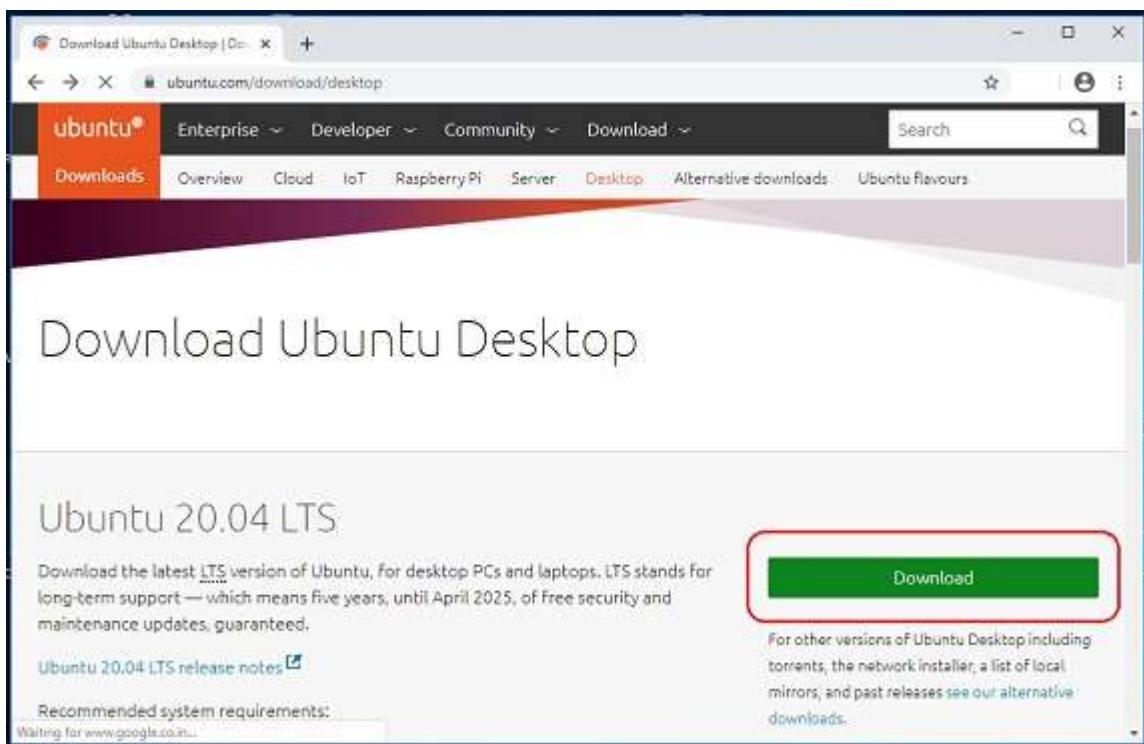
Step 7: Click on the Yes button and then the "Install" button.

Download Ubuntu

Follow the instructions below to download the Ubuntu ISO file.

Step 1: To download the latest version of Ubuntu, i.e., Ubuntu, visit the official [Ubuntu](https://www.ubuntu.com/) website in your web browser.

Step 2: By clicking on the "Download" button, you can download the latest version of Ubuntu, i.e., Ubuntu 20.04 LTS (long term support).

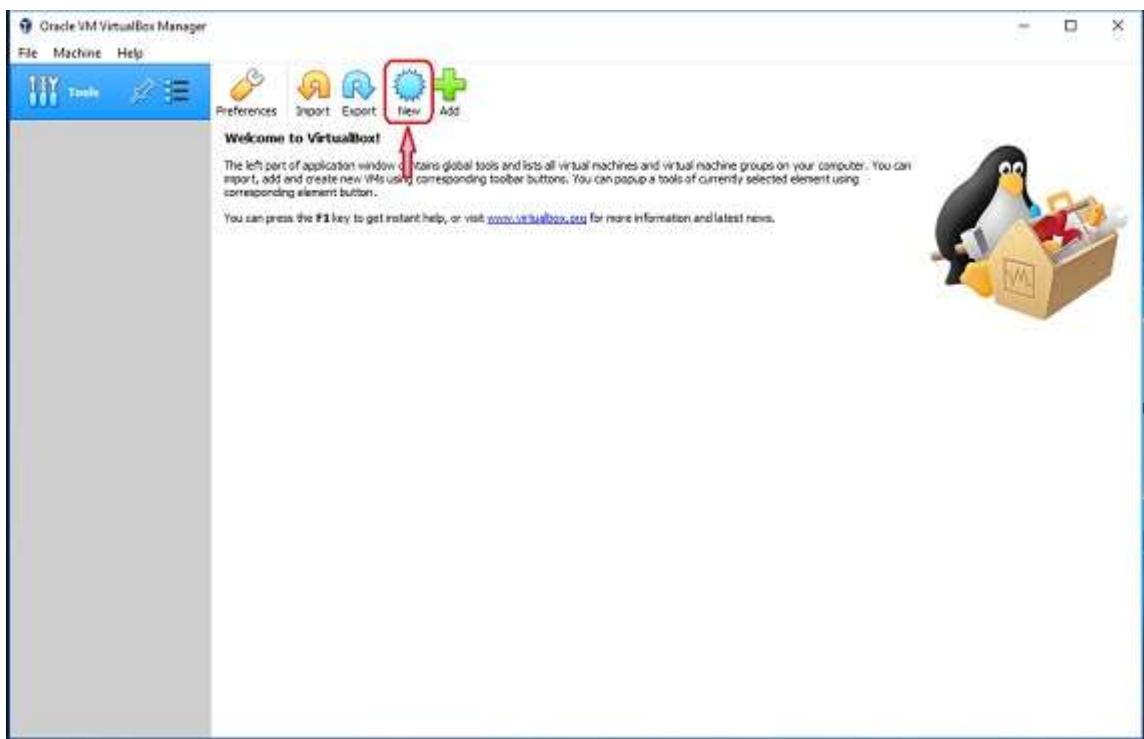


The screenshot shows the official Ubuntu website at ubuntu.com/download/desktop. The main heading is "Download Ubuntu Desktop". Below it, "Ubuntu 20.04 LTS" is highlighted. A green "Download" button is prominently displayed. To its right, a box contains text about other download options: "For other versions of Ubuntu Desktop including torrents, the network installer, a list of local mirrors, and past releases see our alternative downloads."

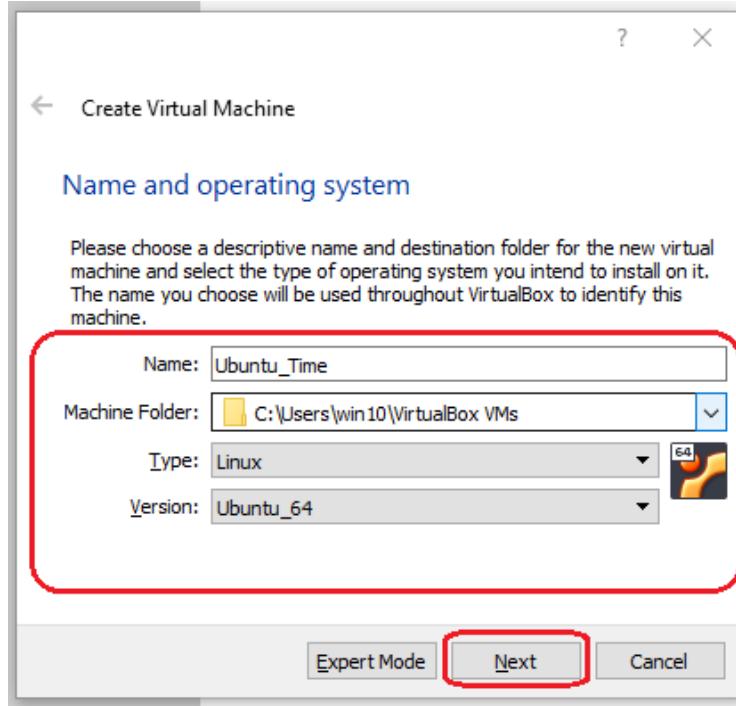
Creating a Virtual Machine

Now, it is time to create a Virtual Machine. Follow the instructions below to proceed.

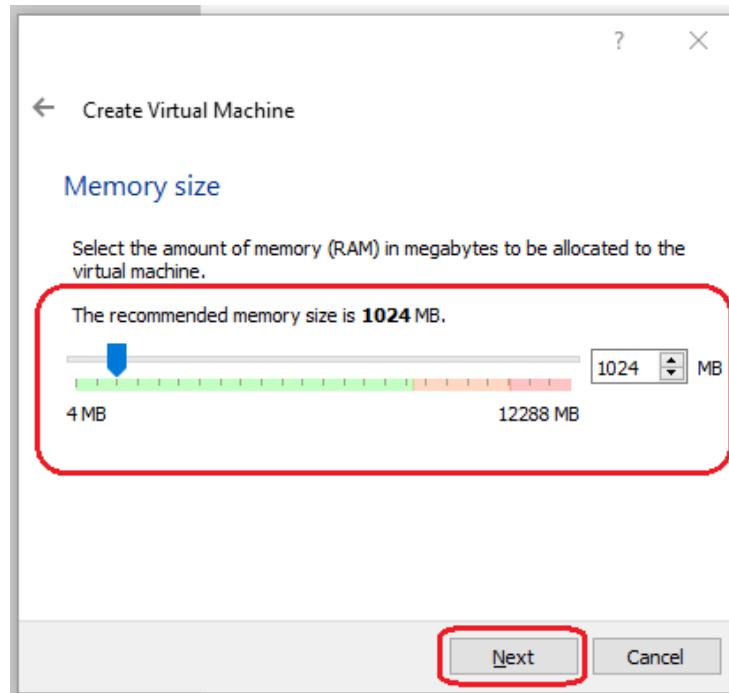
Step 1: Open VirtualBox and click on the "New" button.



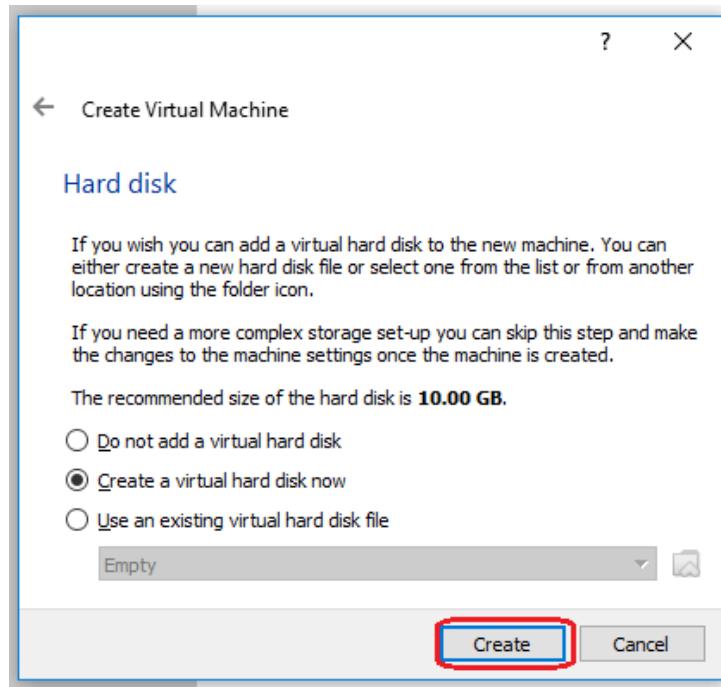
Step 2: Choose a name for your virtual machine with its location. Based on the name you entered, VirtualBox will try to predict the "Type" and "Version". Otherwise, from the drop-down menu, select "Linux" as the type and "Ubuntu" as the version and click on the "Next" button.



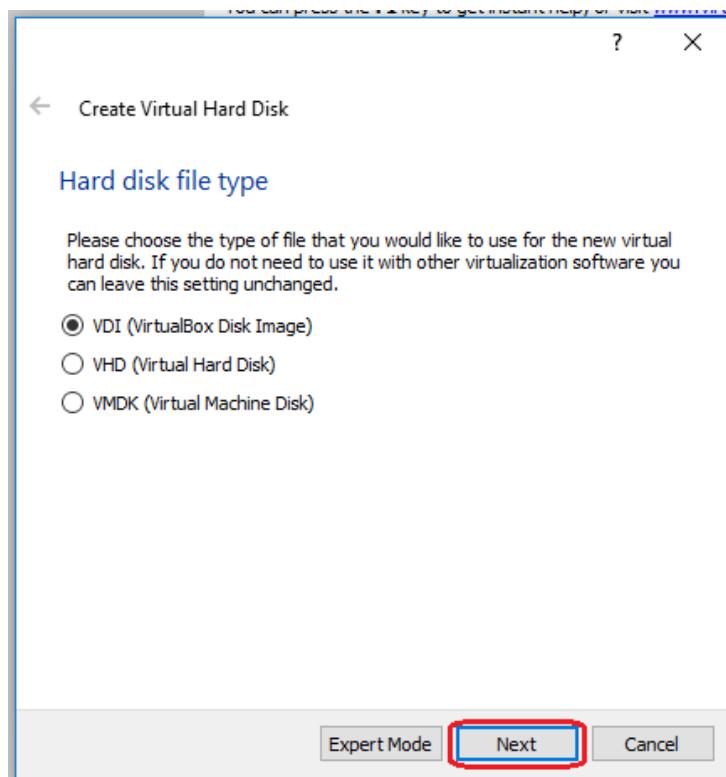
Step 3: With the help of the slider, choose the amount of memory (RAM) to be allocated to the virtual machine. (The recommended memory size is 1024 MB (1 GB). Please note that this memory will only be used while using a virtual machine).



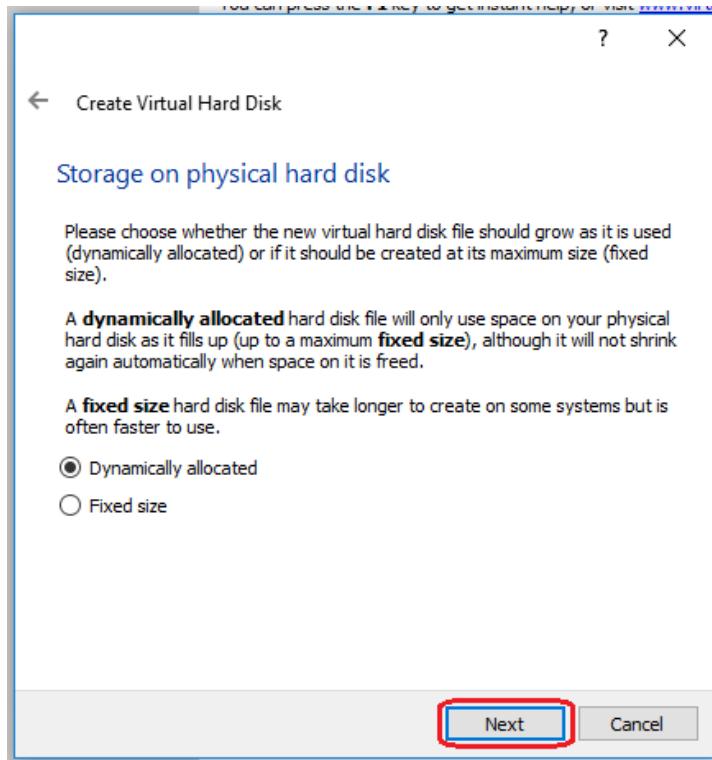
Step 4: Select "Create a virtual hard disk now" option and click on the "Create" button to proceed.



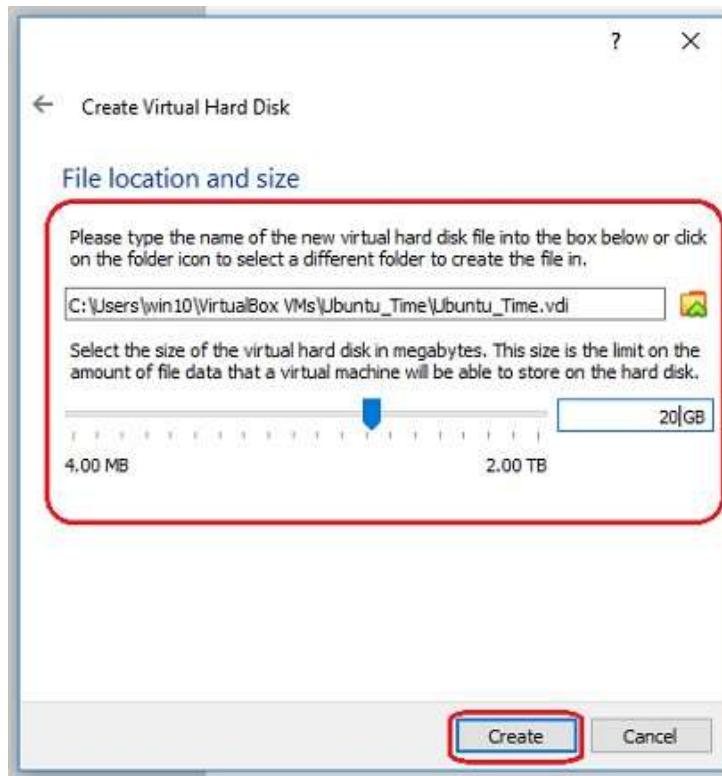
Step 5: Choose the "VDI (VirtualBox Disk Image)" option and click "Next".



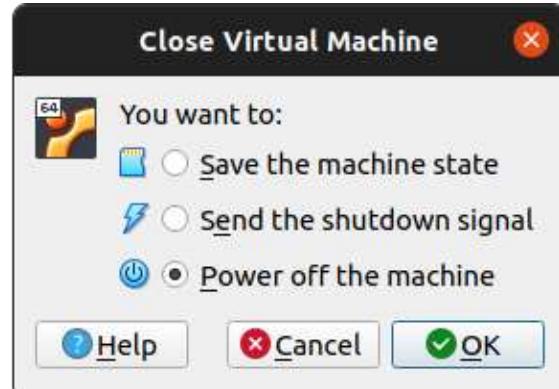
Step 6: Again, click on the "Next" button.



Step 7: Select the amount of space for your virtual machine and click the "Create" button. (This will be used for your operating system which is going to be installed, so give as much space as possible).



Step 8: When you click on the "Close" button of your virtual machine window (at the top right of the window, just like you would close any other window on your system), VirtualBox asks you whether you want to "save" or "power off" the VM. (As a shortcut, you can also press the Host key together with "Q".)



Assignment No. 2: Installation and Configuration of Just cloud.

Step1: Download the Installeation

Visit the “JustCloud website” and locate the download section.

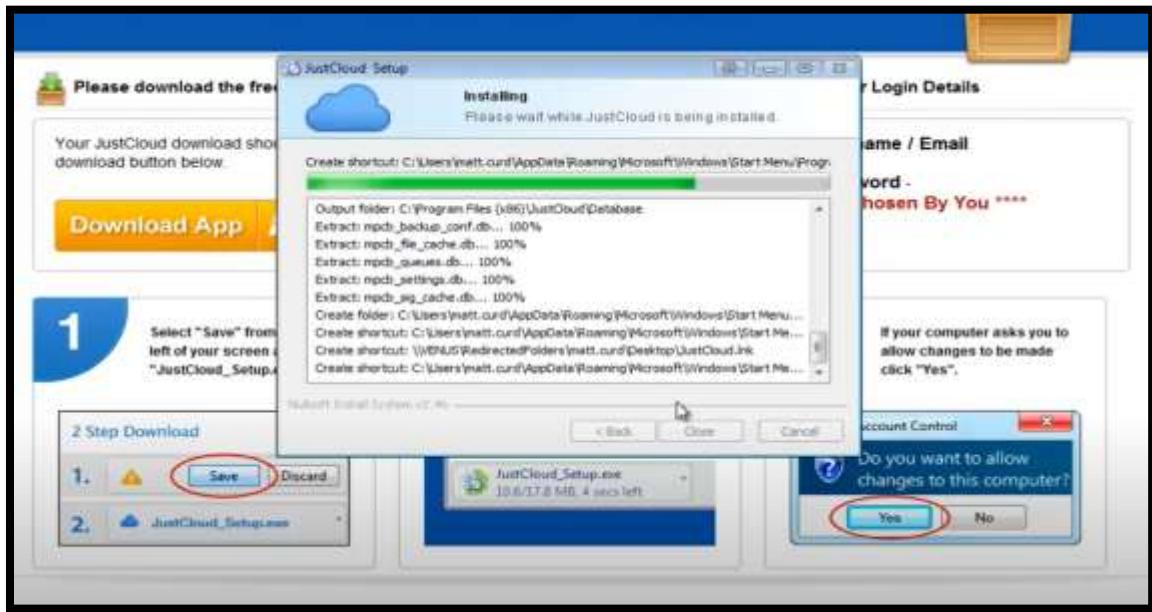


Choose the appropriate version for your operating system (Windows, macOS, etc.) and download the installer.

Step2: Run the Installer

Double-click the downloaded file to start the installation process .Click on “Install” and follow the on-screen instructions. Accept the terms and choose where to install the app if prompted.





On Windows, you might need to grant permission for the installer to make changes to your system.

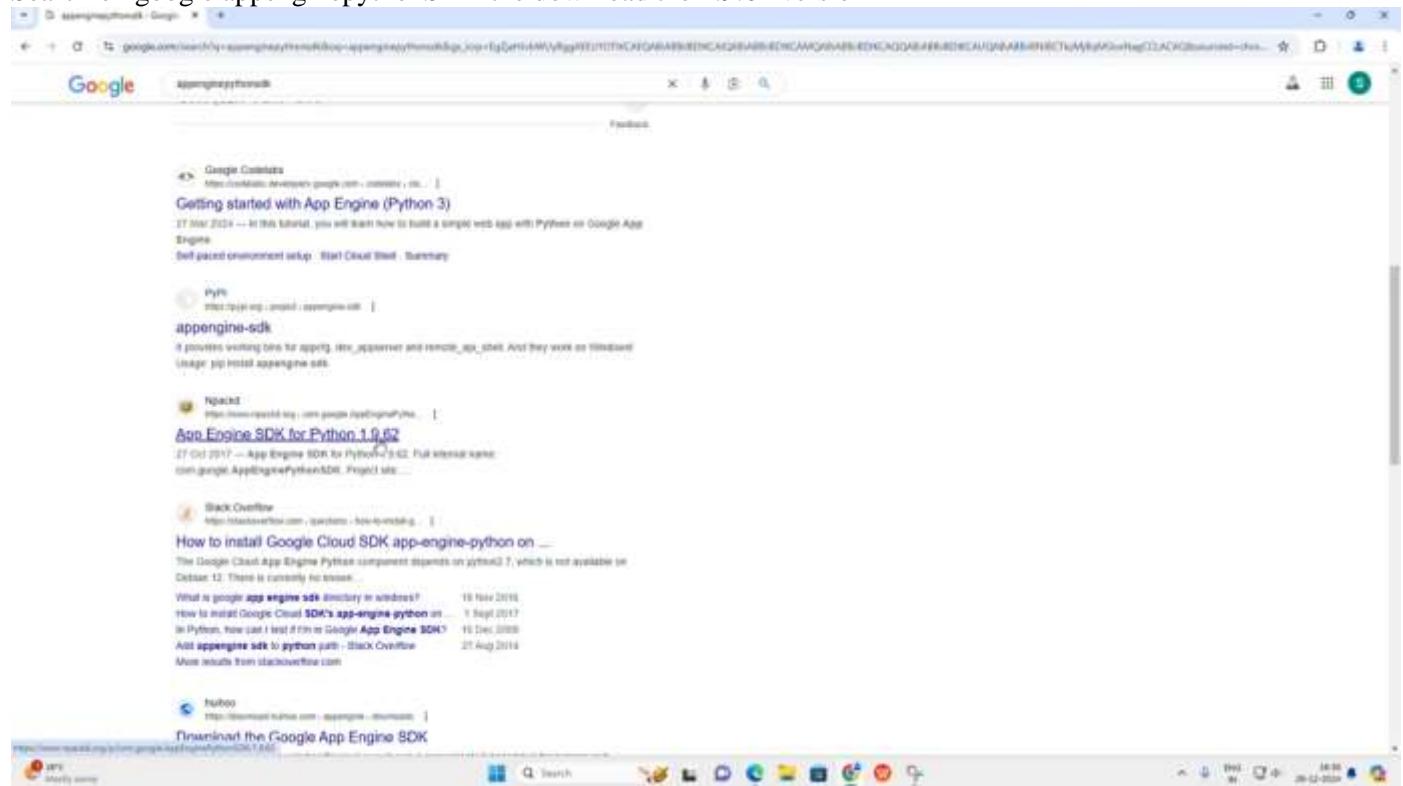
Step3: Complete Installation

Once the installation is complete, the JustCloud application should start automatically.

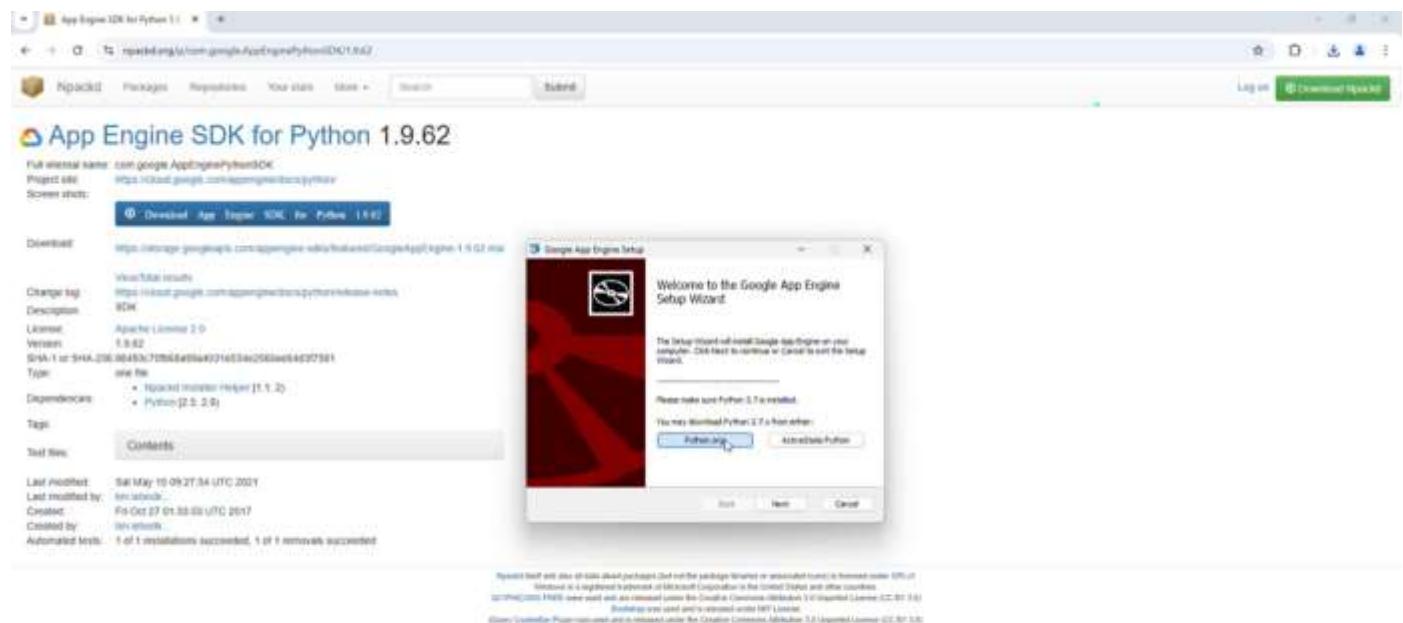


3. Assignment Install Google App Engine. Create hello world app and other simple web applications using python

Search on google appenginepythonSDK the download the 1.9.62 version



Download the google app engine then download python click on python.org



Download the python click on 2.7.9 version

The screenshot shows the Python Downloads page. At the top, there's a table titled "Release schedule" showing the timeline for various Python 2.x releases:

Python version	Maintenance status	First released	End of support	Release schedule
2.14	pre-release	2020-10-01 (planned)	2023-10	PEP 540
2.13	bugfix	2020-10-07	2023-10	PEP 528
2.12	bugfix	2020-10-03	2023-10	PEP 519
2.11	security	2020-10-14	2027-01	PEP 504
2.10	security	2020-10-06	2028-01	PEP 503
2.9	security	2020-10-05	2028-10	PEP 500
2.8	end-of-life, last release was 2.8.30	2020-10-14	2024-01-07	PEP 500

Below this, there's a section titled "Looking for a specific release?" with a table of "Python releases by version number":

Release version	Release date	Click for more...
Python 2.7.21	Dec 3, 2023	Download Release Notes
Python 2.8.0	Sept 21, 2023	Download Release Notes
Python 2.7.20	May 21, 2023	Download Release Notes
Python 5.4.2	Feb 25, 2023	Download Release Notes
Python 2.7.19	Dec 21, 2022	Download Release Notes
Python 5.4.1	Oct 21, 2022	Download Release Notes
Python 2.7.18	Oct 11, 2022	Download Release Notes

At the bottom of the page, there are sections for "Sponsors" and "Voluntary sponsors help to fund Python downloads."

Download the x86 MSI installer

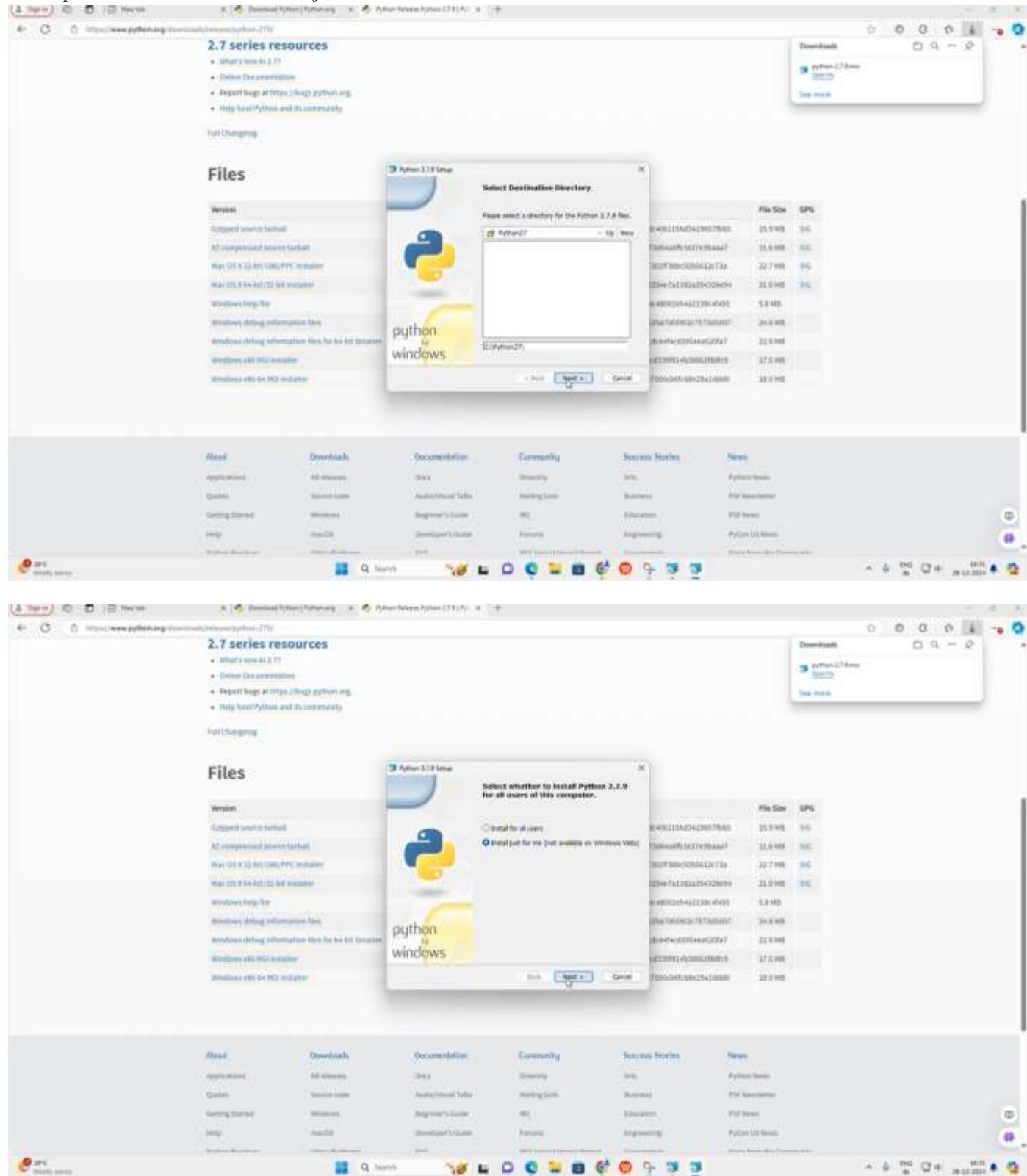
The screenshot shows the "2.7 series resources" page. It includes a "What's new in 2.7" section, "Online Documentation", "Report bugs at https://bugs.python.org", and "Help build Python and its community". Below this, there's a "Full Changelog" link.

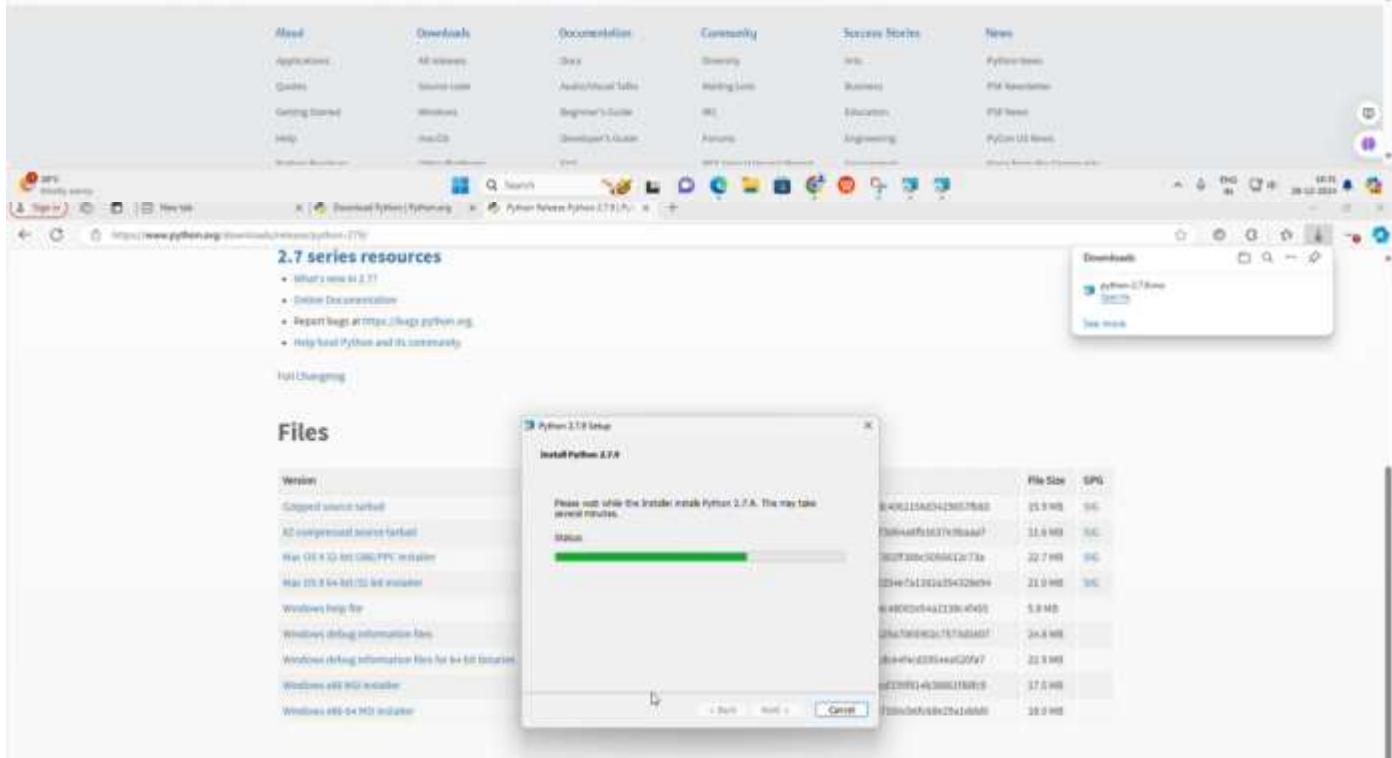
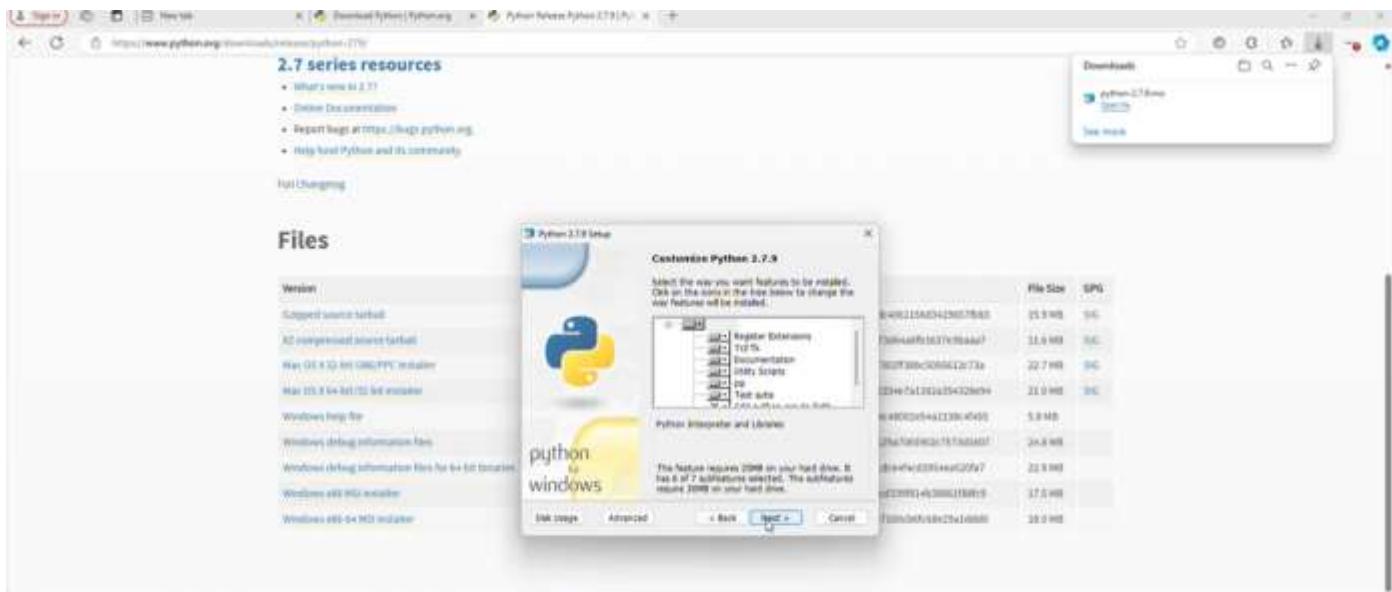
Files

Version	Operating System	Description	MD5 Sum	File Size	SPG
Gzipped source tarball	Source - release		5e0fca0300849c225a34428077840	15.9 MB	SPG
All compressed source tarball	Source - release		38d50ff9e1730b44fb3d77b3a4af7	31.8 MB	SPG
Mac OS X 10.9 Intel PPC installer	MacOS	For Mac OSX 10.9 and later	80fa20967f67f02f30b5008612c73a	22.7 MB	SPG
Mac OS X 64 Intel/PPC installer	MacOS	For Mac OSX 10.6 and later	3f71289f9c12254ef5a1302a254228c94	21.0 MB	SPG
Windows Help file	Windows		d41a30f9952414002544223645d10	5.8 MB	
Windows desktop information files	Windows		c4333ee203f2a5a0409217f393a8d7	24.8 MB	
Windows desktop information files for 64-bit (x64)	Windows		544c122764ec04a9f42394420f9a7	22.3 MB	
Windows x86 MSI installer	Windows		3e03208664a22291493086216f9	17.5 MB	
Windows x86-64 MSI installer	Windows	For AMD64/EM64T/x64	234e0240f46172b3cd1f00a25a16880	28.2 MB	

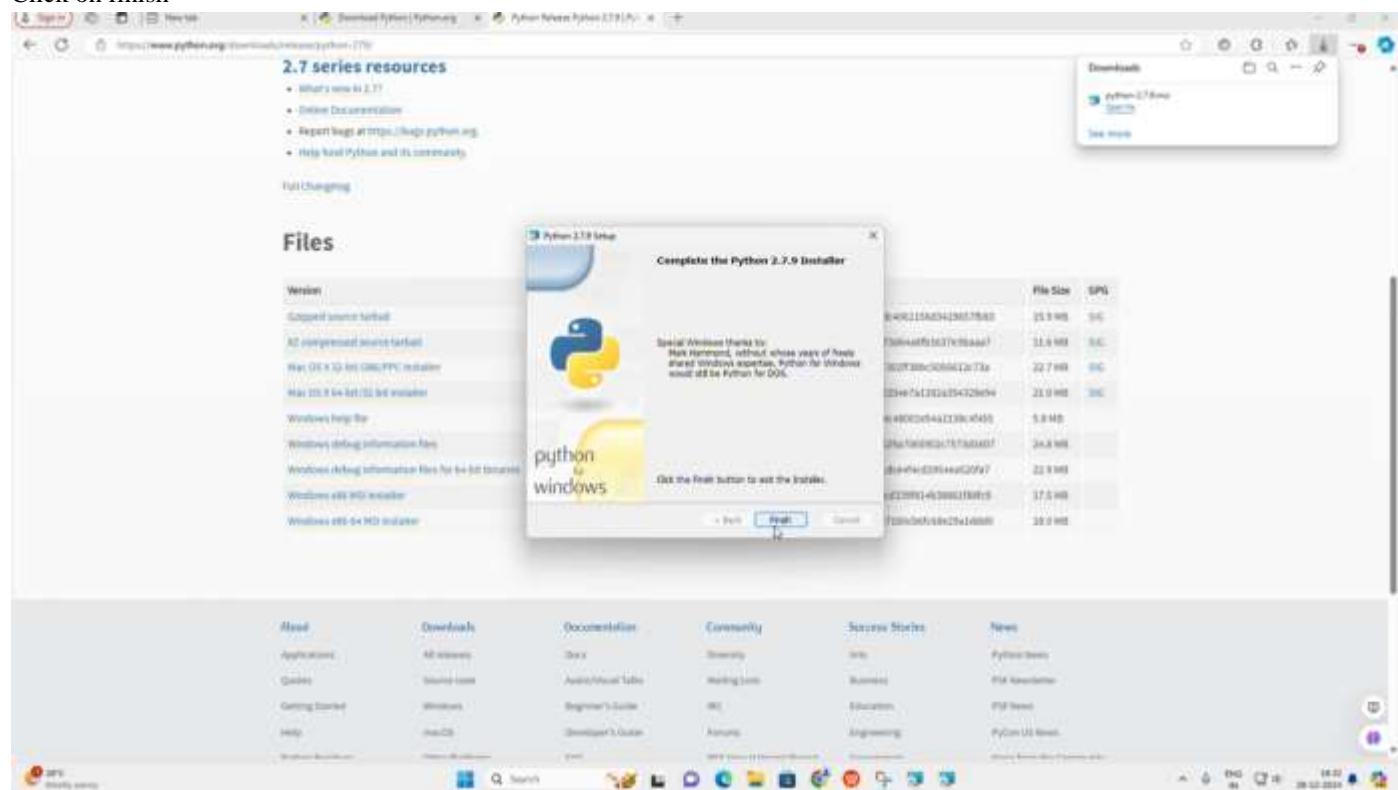
At the bottom of the page, there's a "About" section with links to "Applications", "Community", "Success Stories", and "News".

Then open the file and click on install just for methen click on next-> next

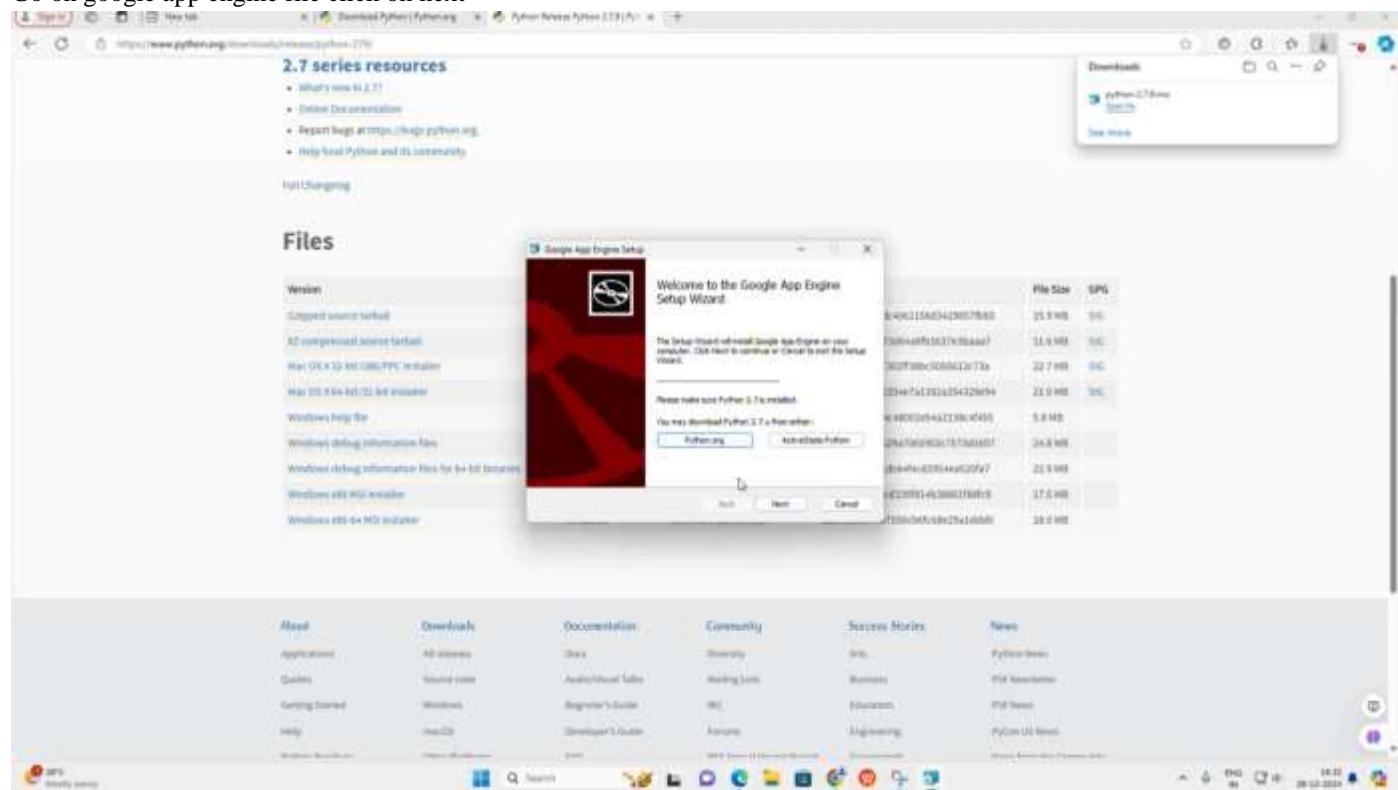




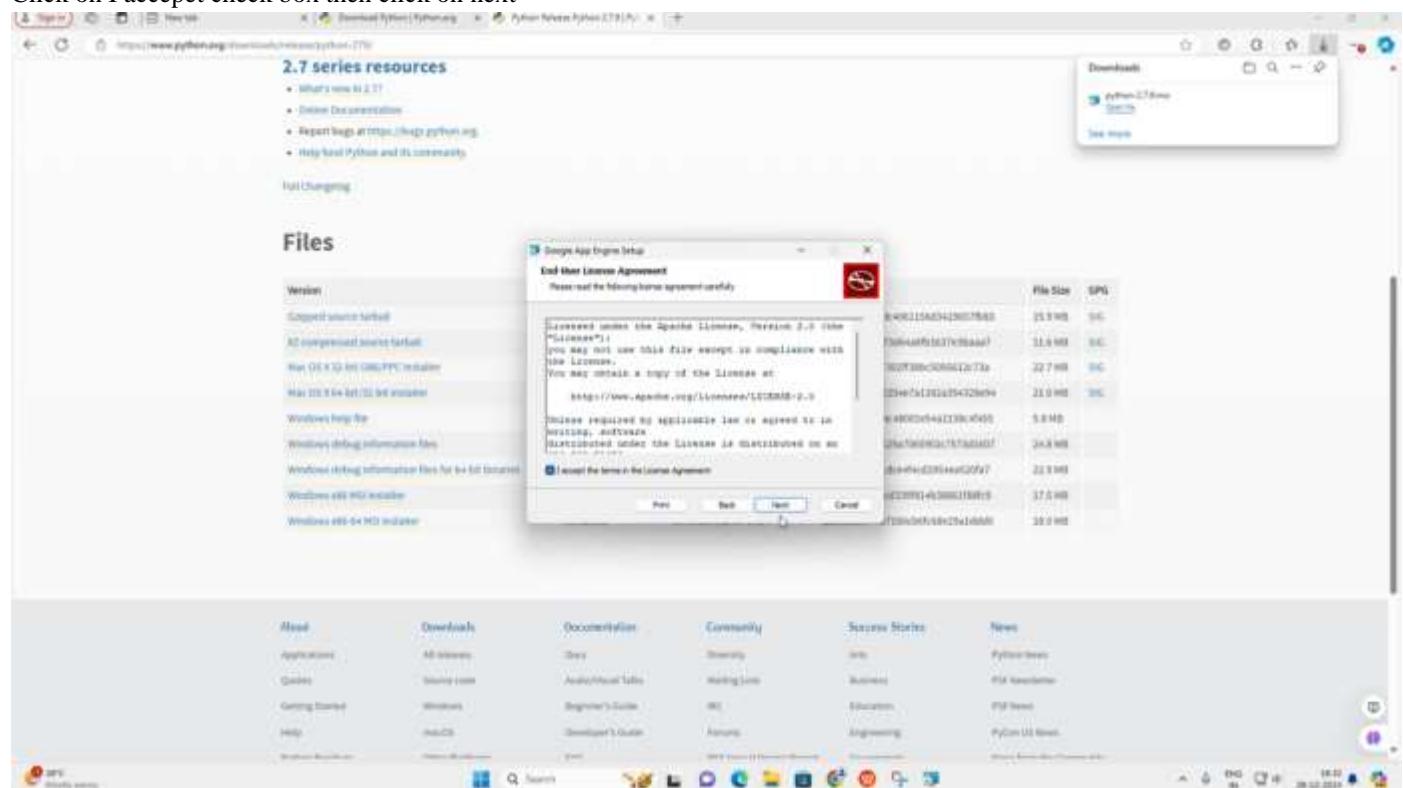
Click on finish



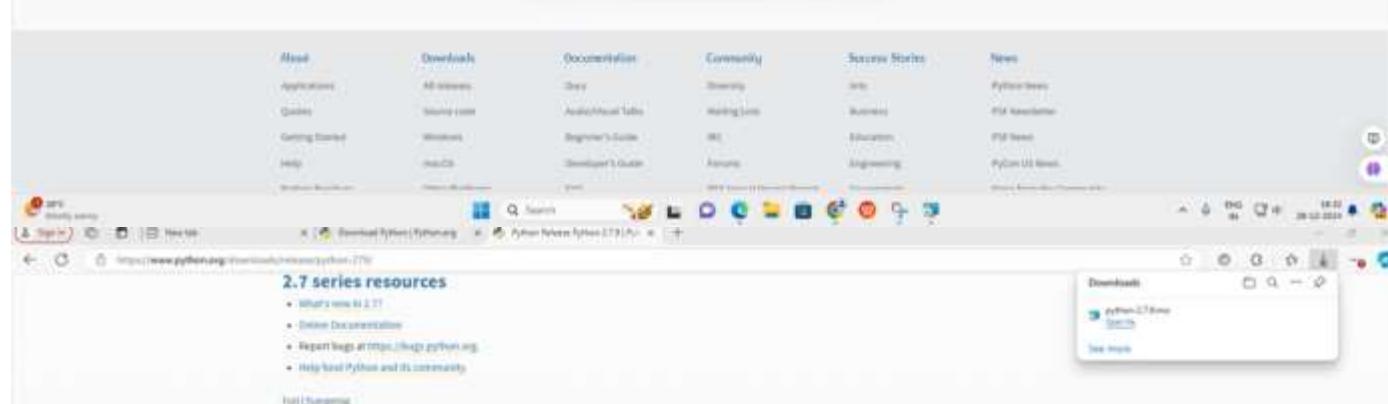
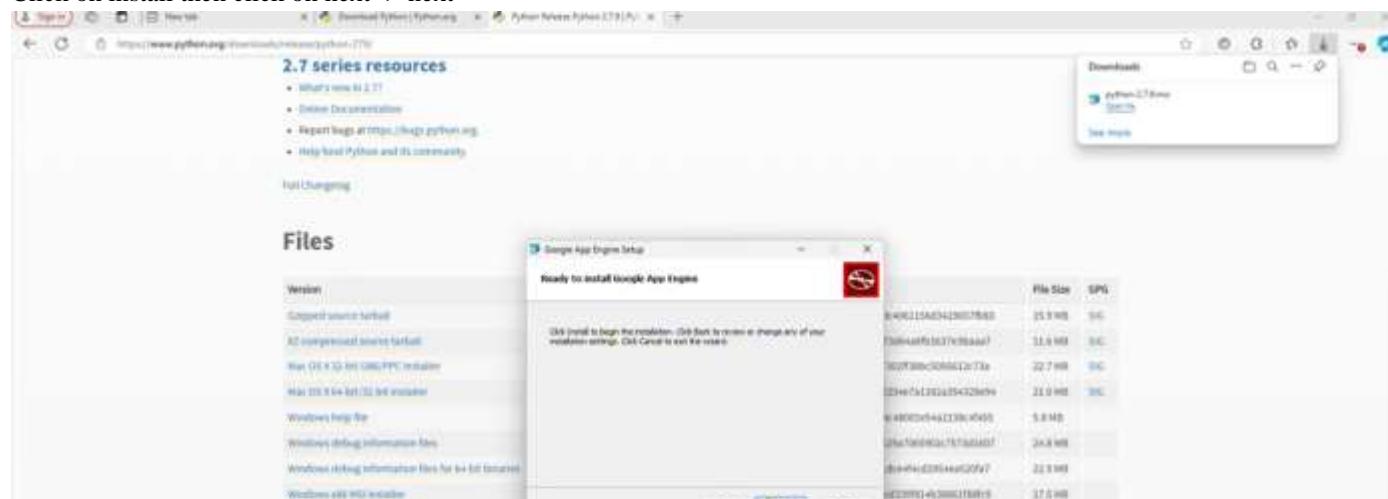
Go on google app engine file click on next



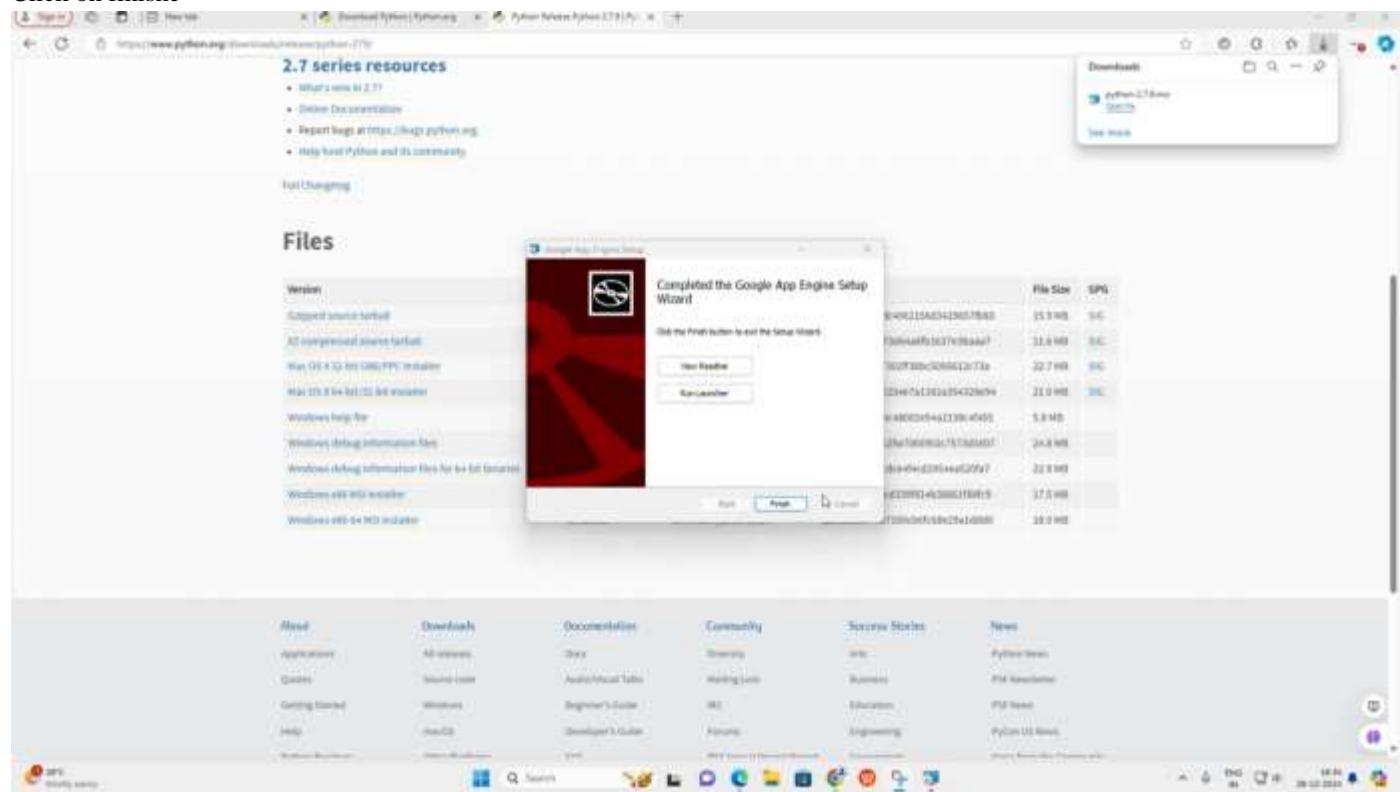
Click on I accepte check box then click on next



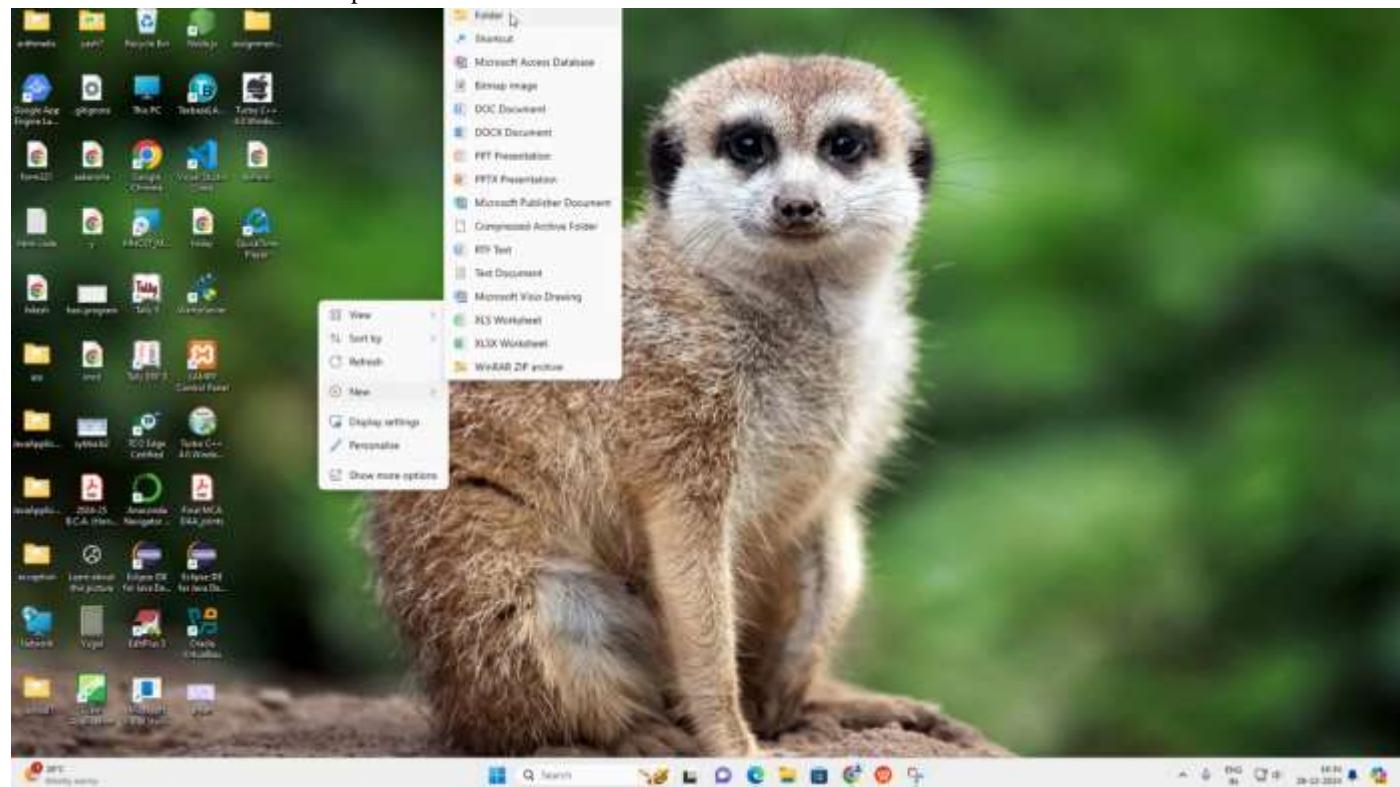
Click on install then click on next -> next



Click on finish



Create the new folder on desktop

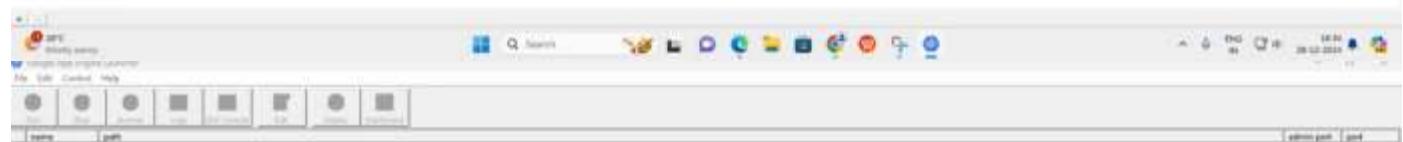
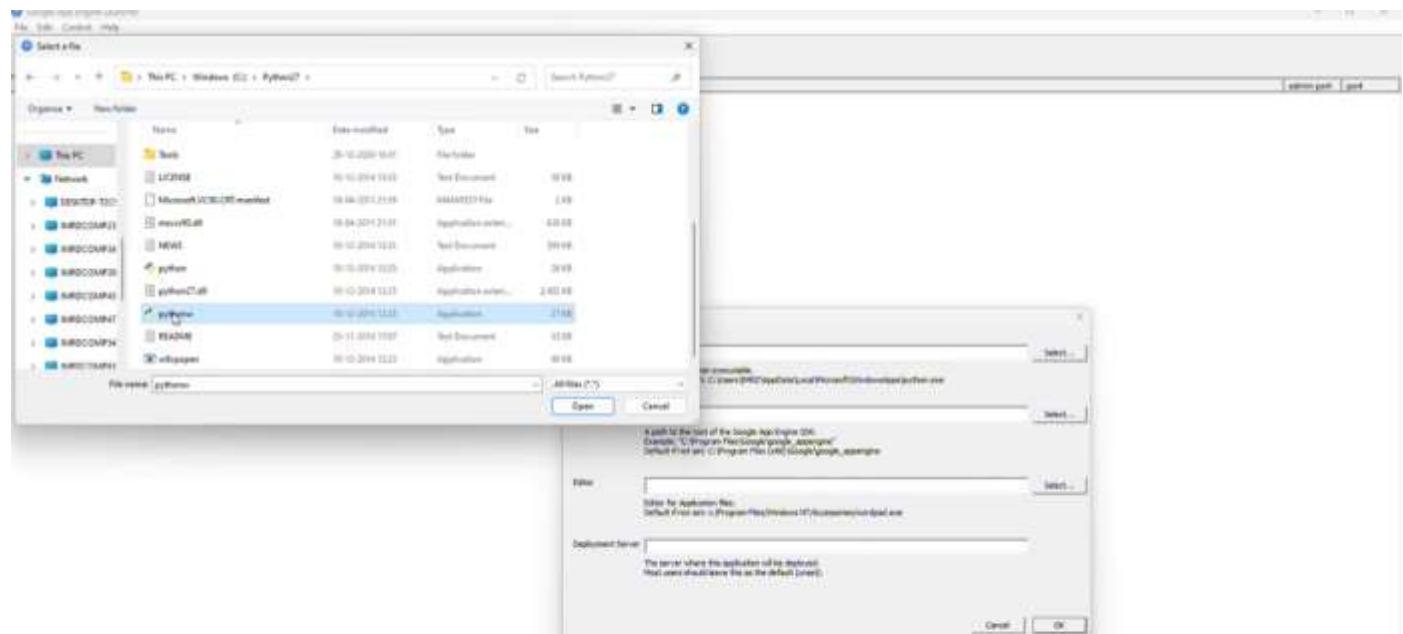


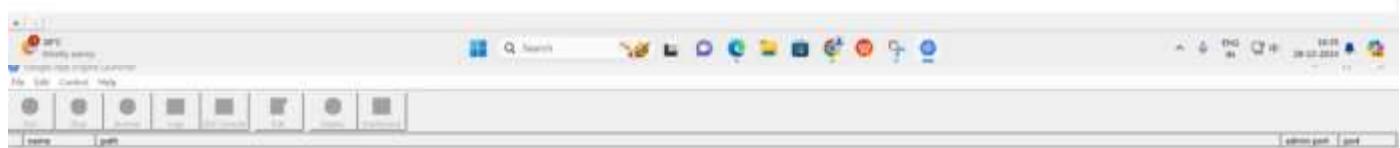
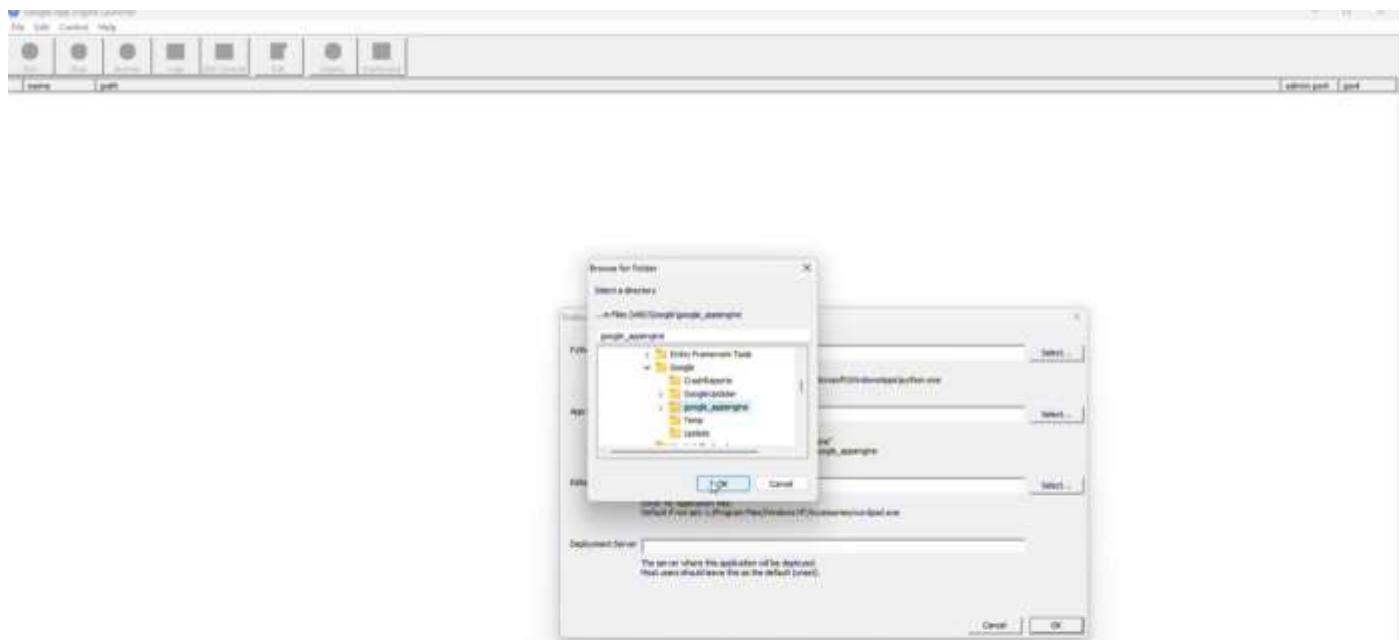
Go on google app engine click on edit then click on Preference



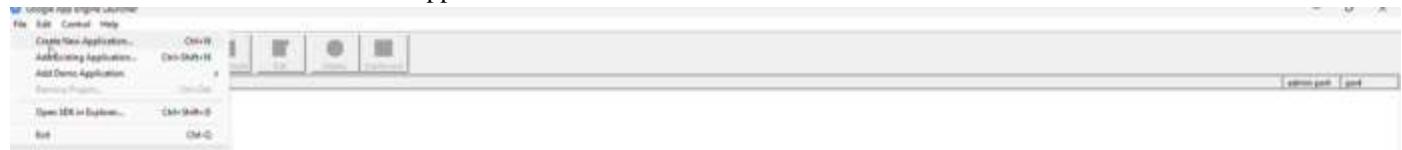
Select the python path the file name is python.exe then App engine SDK select the path



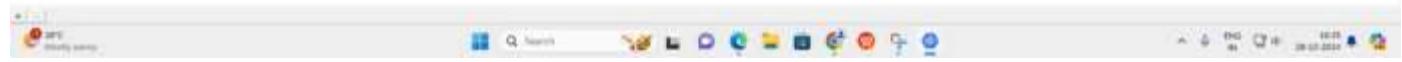
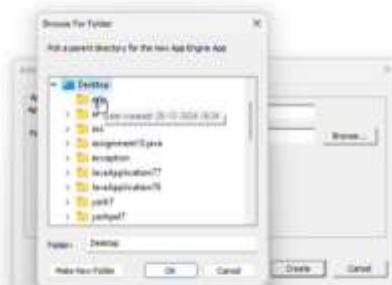
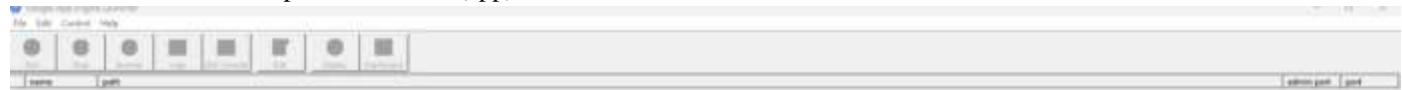




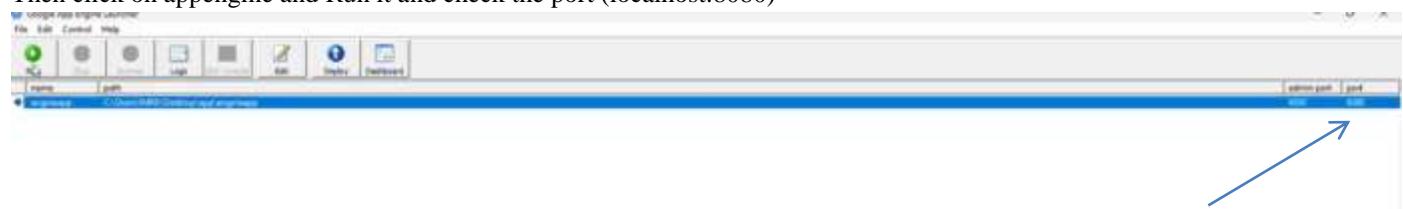
Click on file then click on create new application



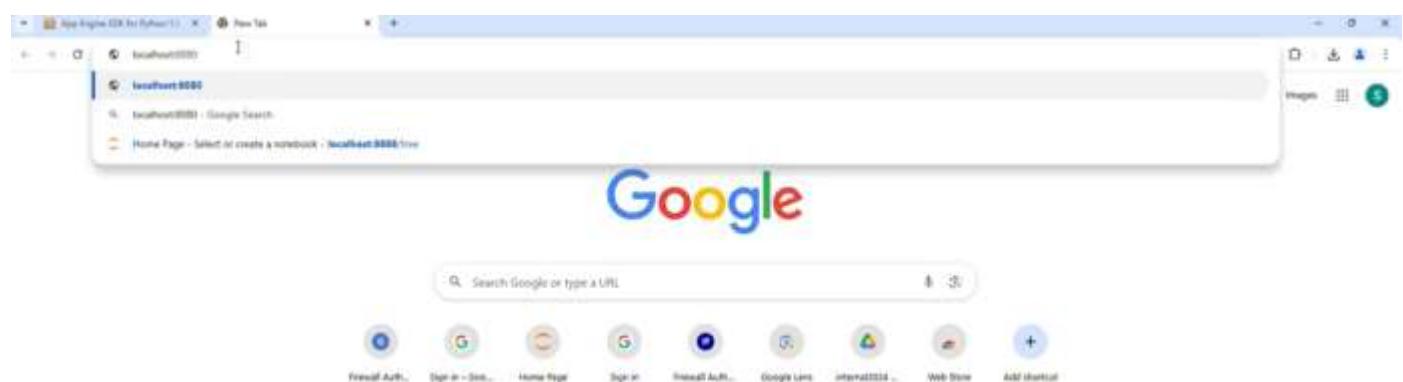
Then select file on desktop created folder (app)

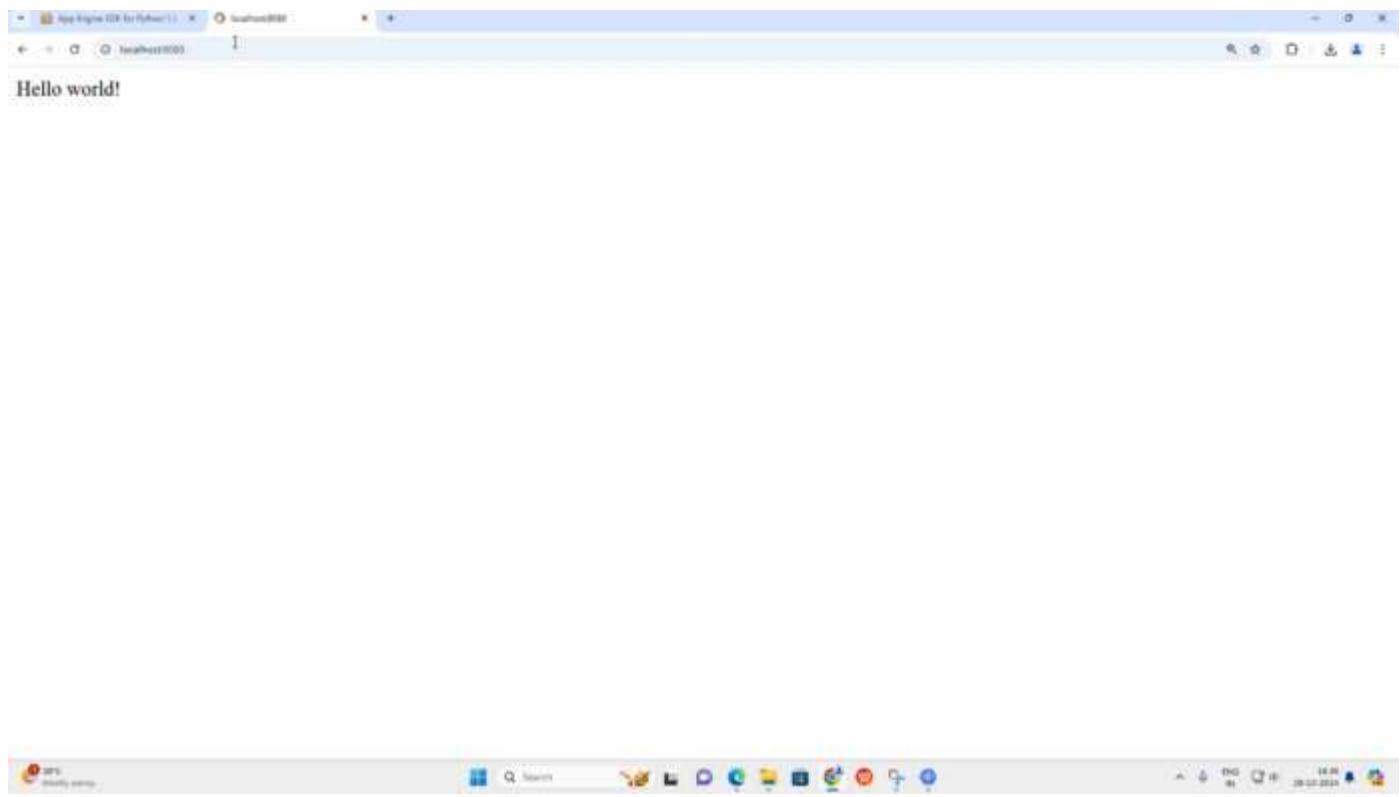


Then click on appengine and Run it and check the port (localhost:8080)



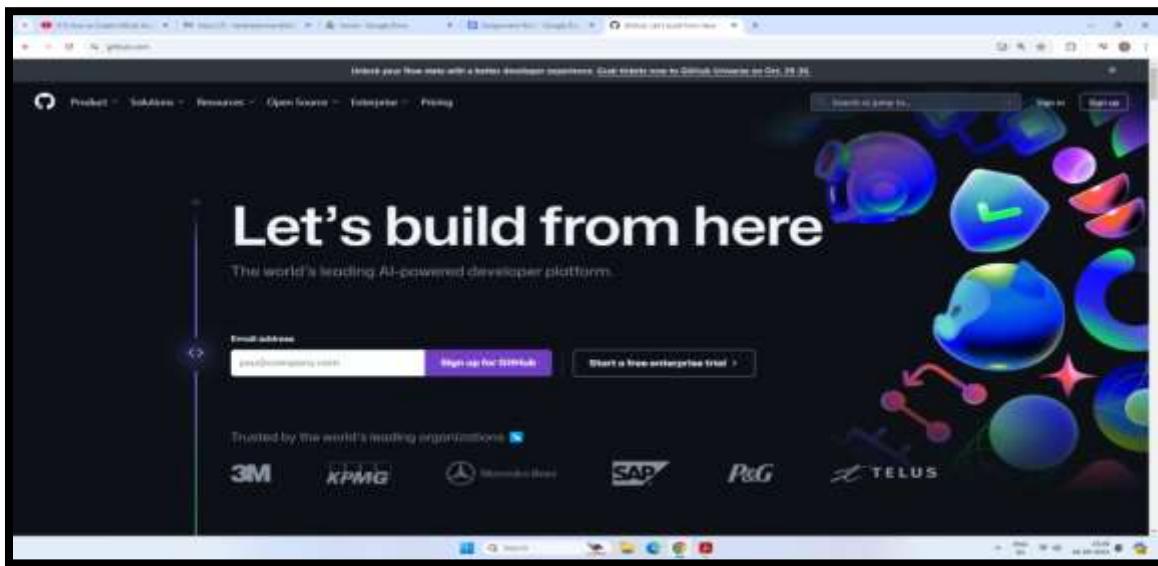
Search on google localhost:8080 then enter



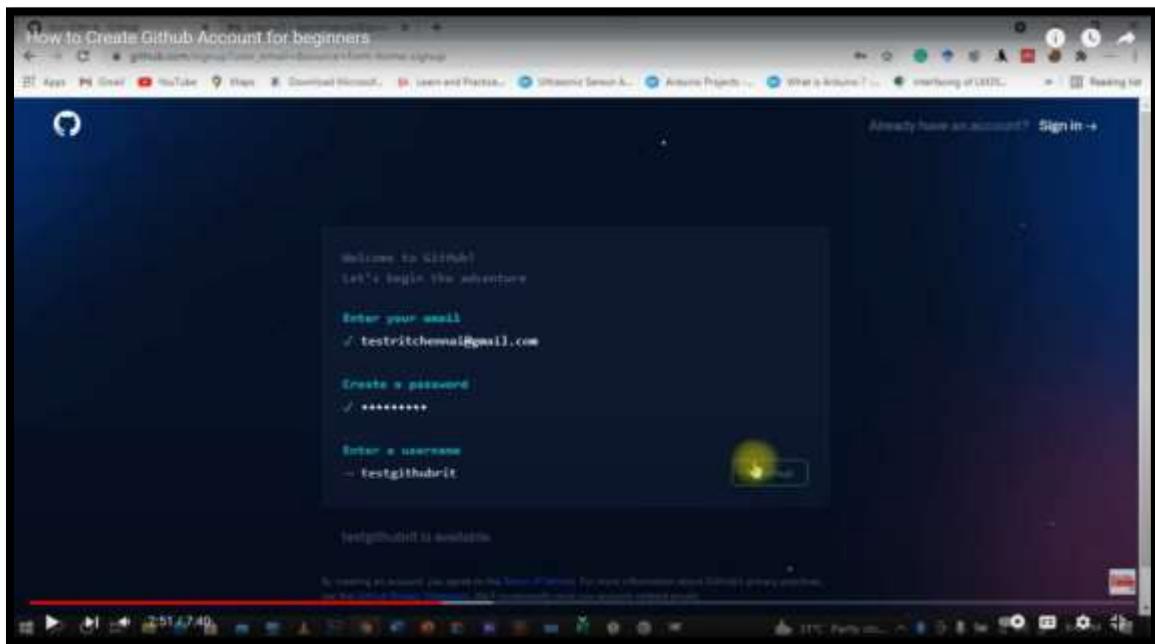


Assignment No. 4: Setting Up a Simple Website on GitHub.

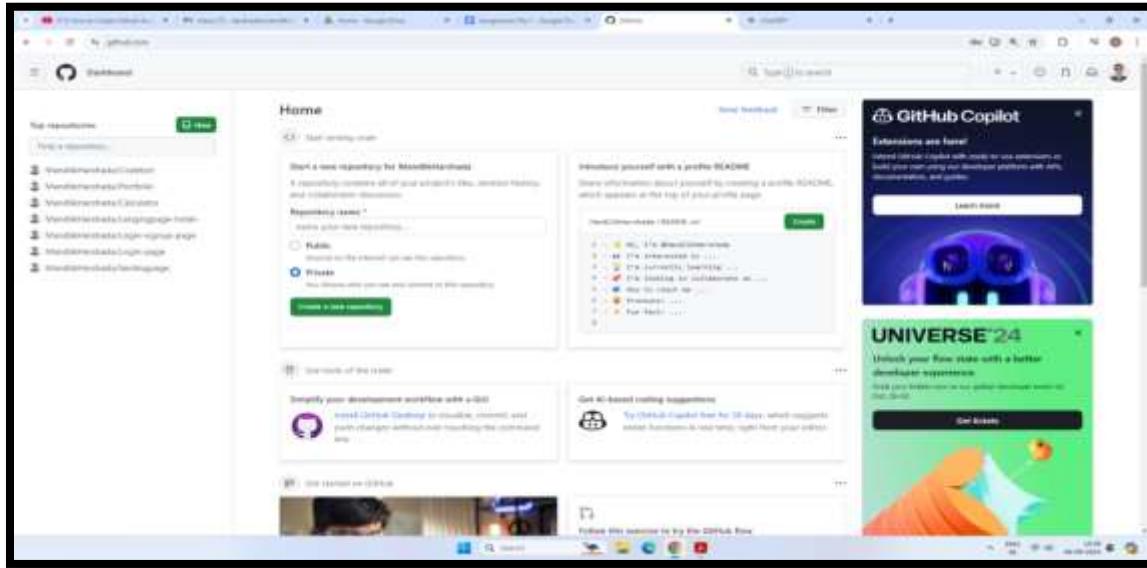
Step1: Open GitHub website.



Step2: Click on sign in button on top of right and create your account with your details.

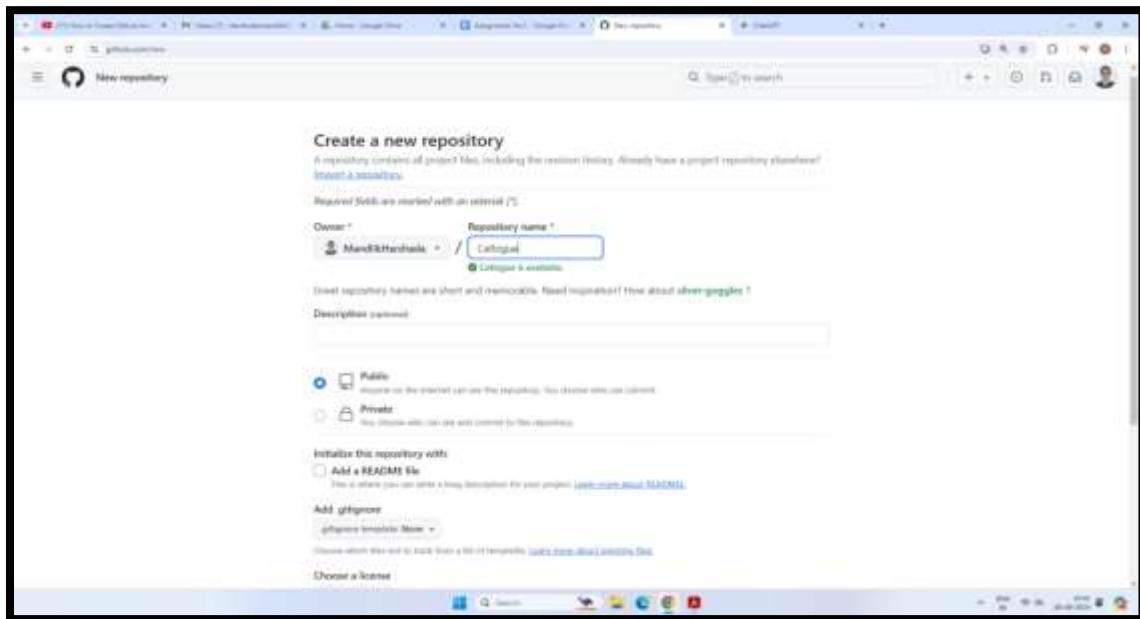


Step 3: Finally the account is created.

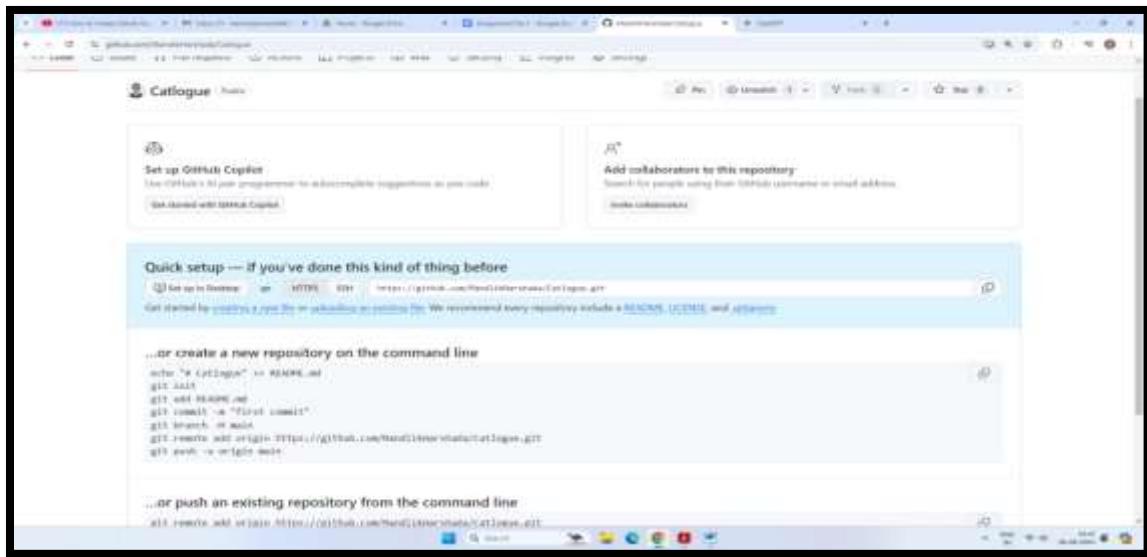


- To deploy a static website on GitHub Pages.

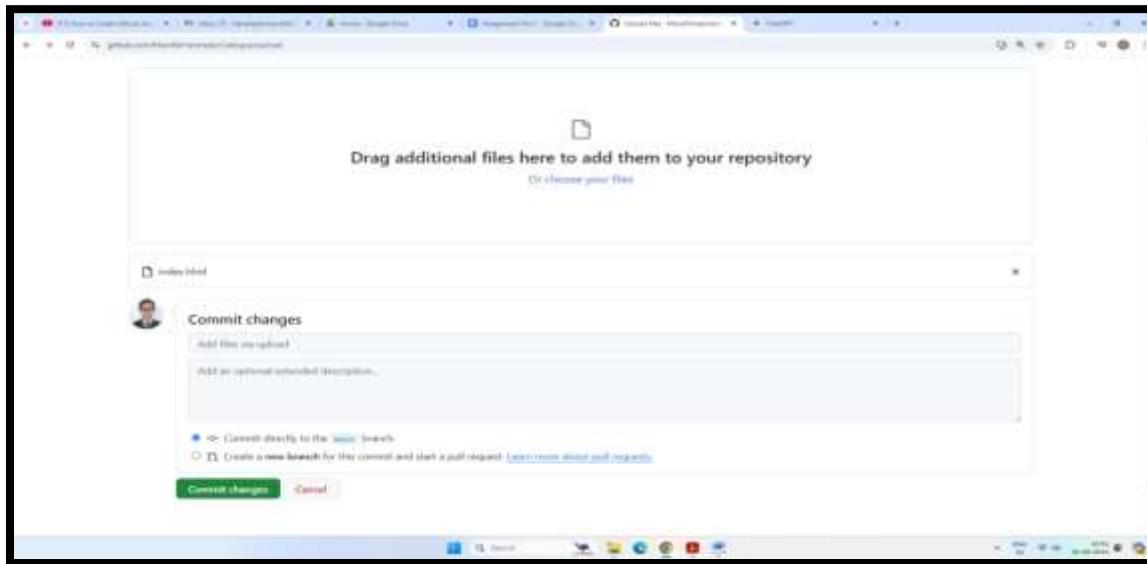
Step1: Click on the "+" icon in the top right corner and select "New repository."



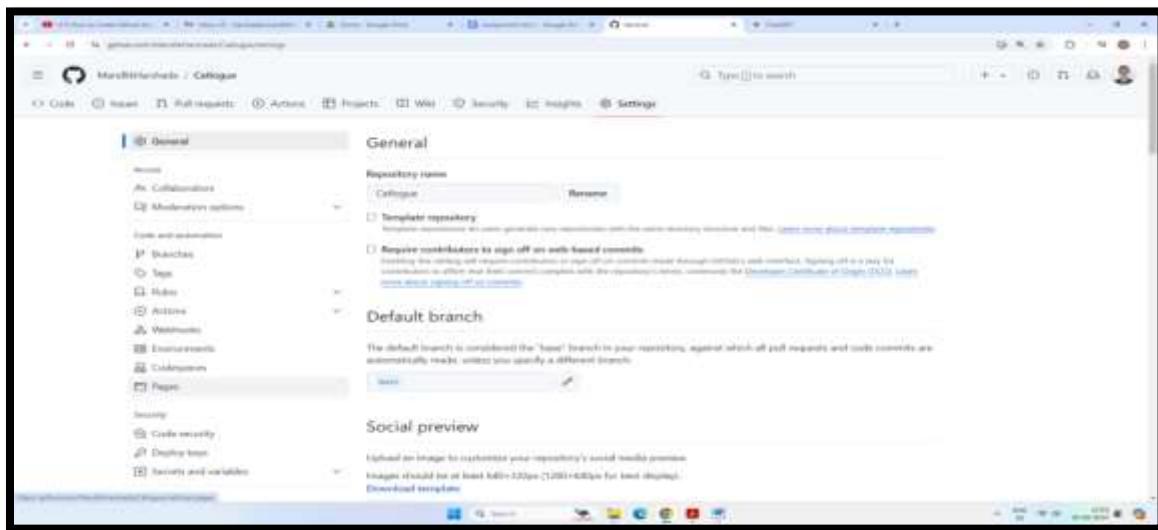
Step2: On your newly created repository page, click on "Add file" > "Upload files."
Drag and drop your HTML, CSS, and JavaScript files into the upload area. Make sure you have an `index.html` file as this will be the homepage.



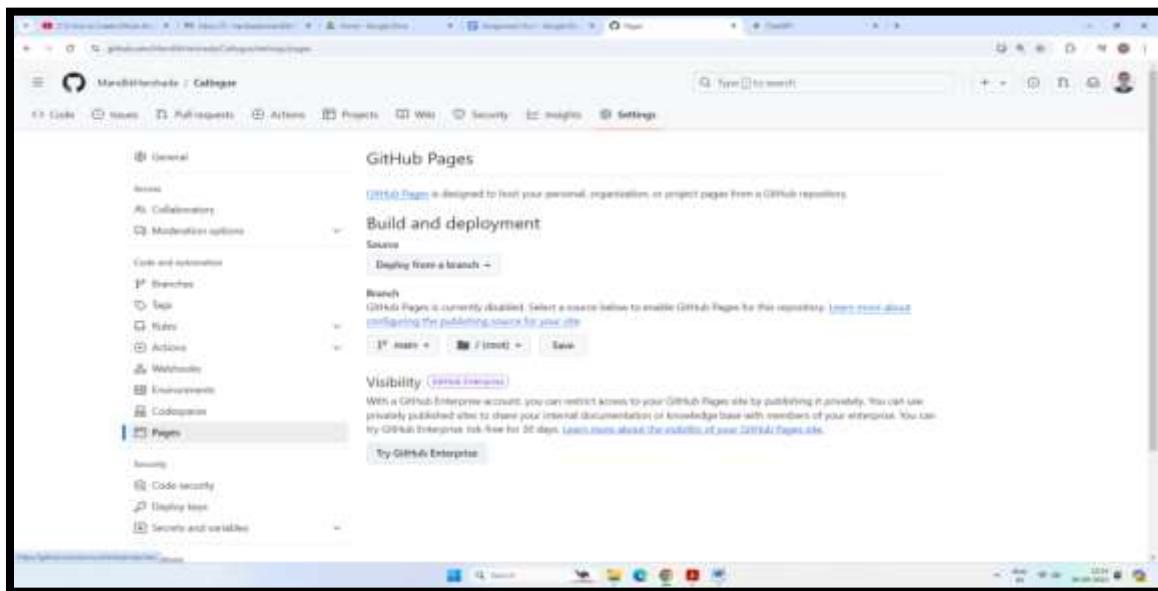
Step3: Click on commit changes button.



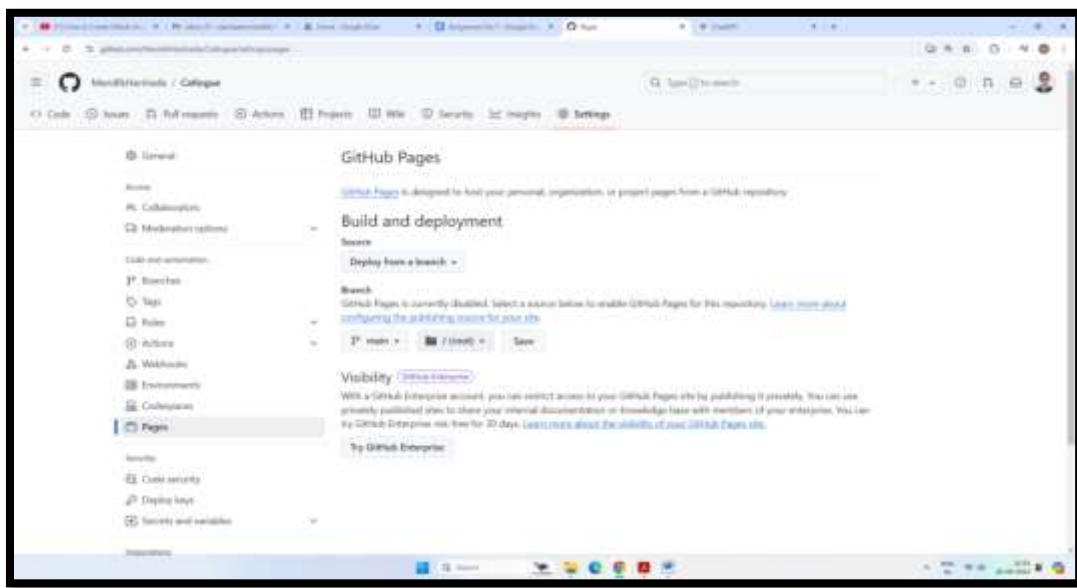
Step4: Go to the "Settings" tab of your repository.



Step5: Scroll down to the "Pages" section (on the left sidebar).

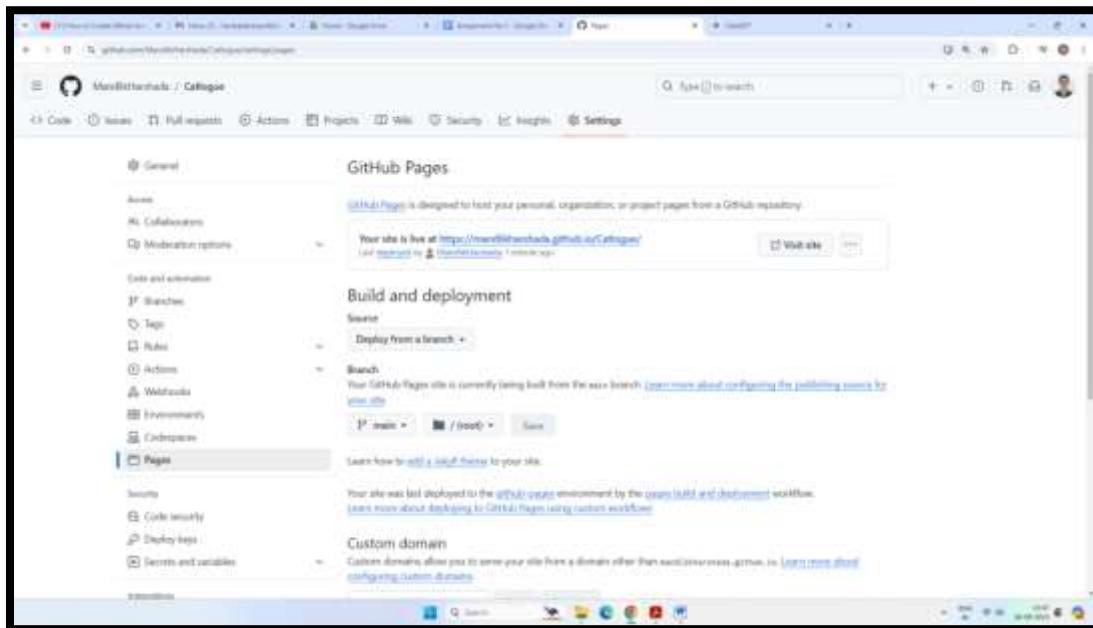


Step6: Under "Source," select the branch (usually **main**) and then the root folder **/** for your site.

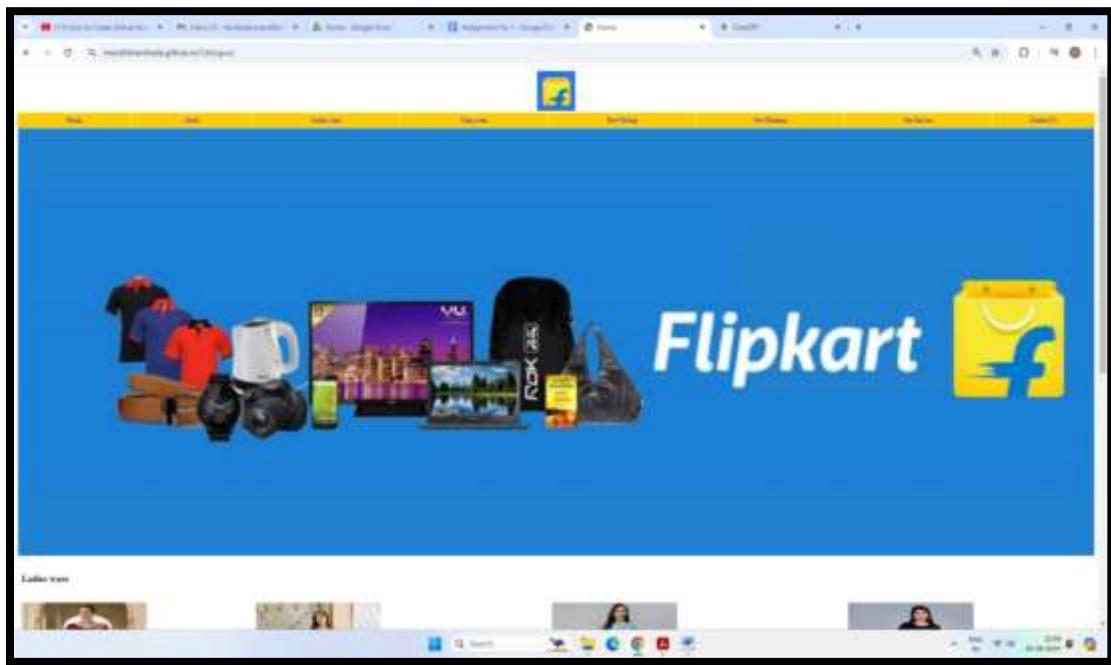


Step7: Click "Save."

Step8: After a few moments, your website will be available at <https://username.github.io> (replace **username** with your actual GitHub username).



Step9: Final output.

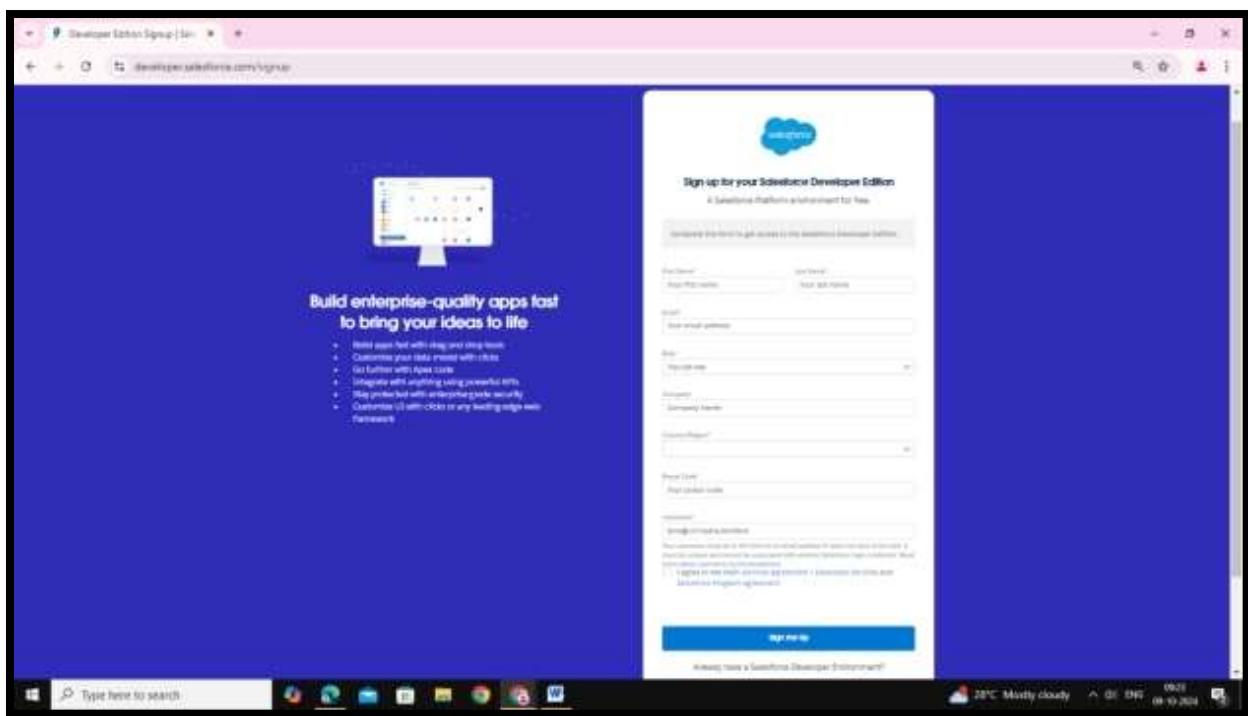


Assignment no.5: Introduction to cloud CRM (Salesforce):

CRM : is a technology that helps businesses organise and track customer interactions across their company by collecting and analysing relevant customer-related data. This information lives in a centralised location, providing a single view of each customer across all teams within an organisation.

Modern CRMs are hosted in the cloud, providing easy access to information, faster processing speeds, and the flexibility to scale quickly to meet an organisation's changing needs.

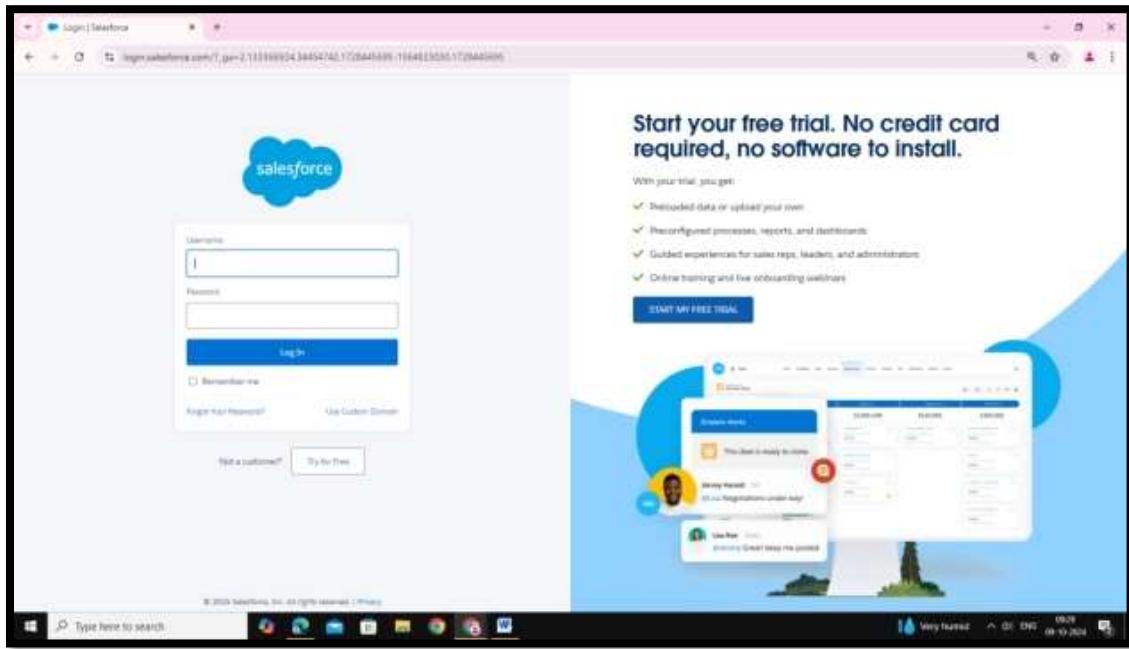
Step 1: open the Developers Edition signup as a Developer(using developers.salesforce.com)



step 2: fill the related information and click on sign me up.

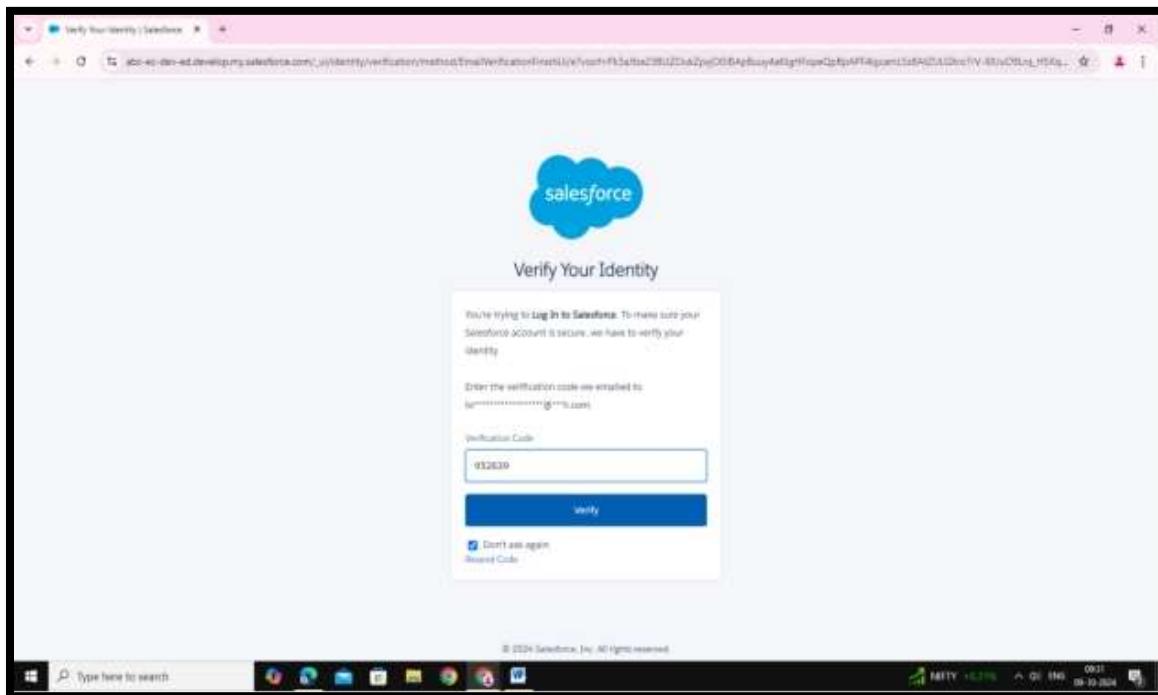
step 3: Click on login which located below the sign me up.

step 3: Click on login which located below the sign me up.



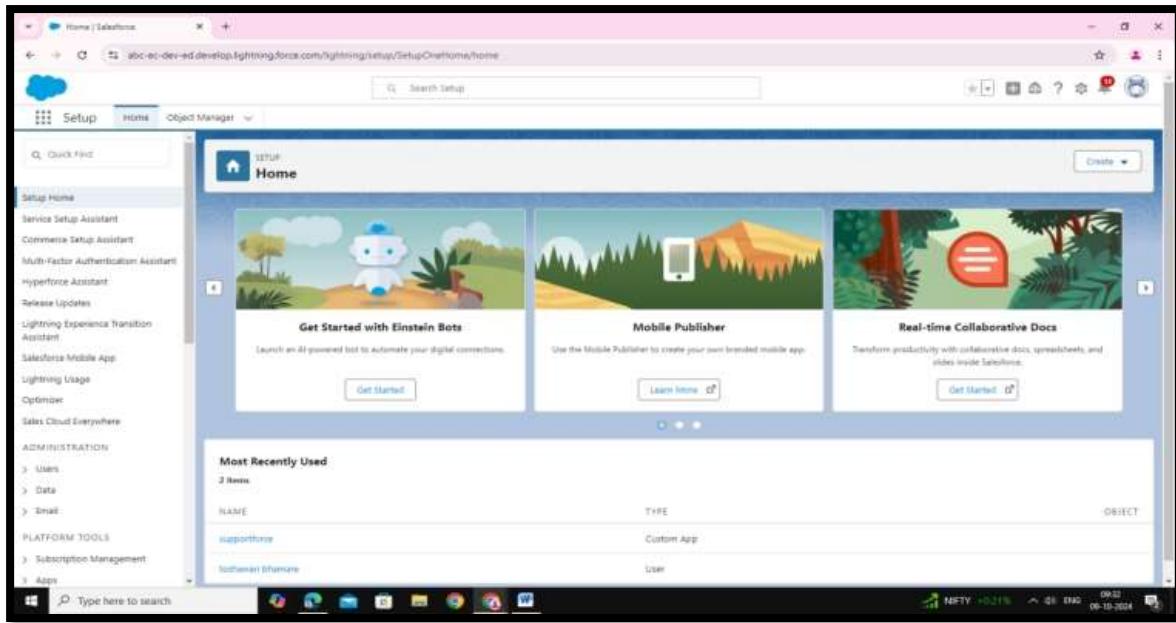
step 4: enter your username and password then click on login.

step 5: if we successfully login, then salesforce provide verification code to our login email.



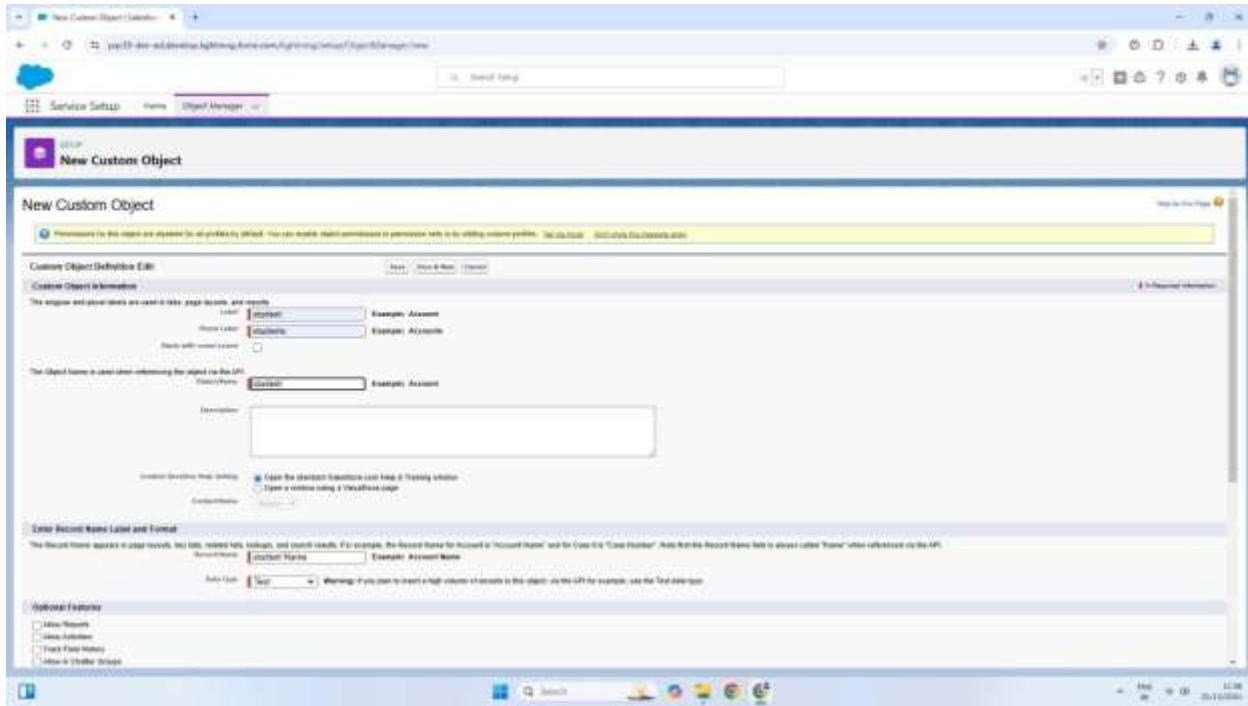
step 6: Enter verification code and click on verify.

step 7: if we successfully verified then it directly goes on salesforce home page.

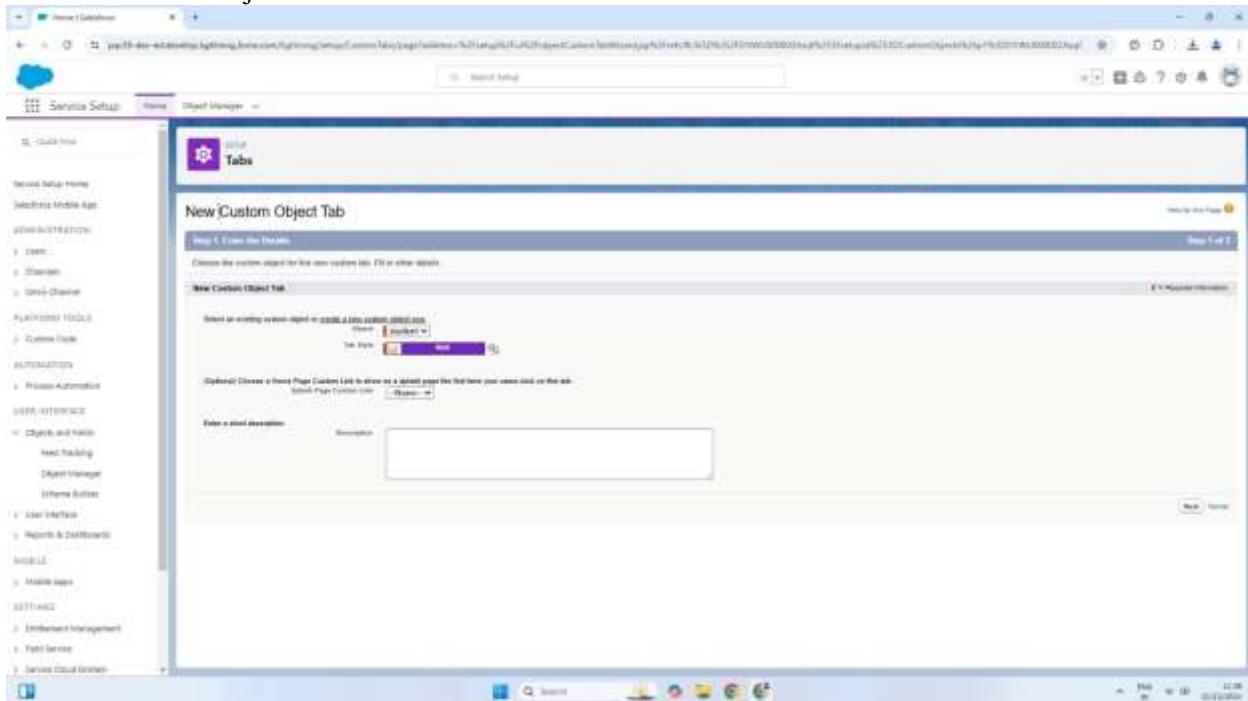


Practical no: 6 Create Reports, Dashboards, and use different chart types to visualize data effectively using Sales force.

Step 1: Login on salesforces then create the object



Give the name of object then click on next-> next-> next->



Click on Fieds and Relationship

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes 'Service Setup', 'Home', and 'Object Manager'. The main title is 'student'. On the left, a sidebar lists various configuration tabs: Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Components Layouts, Field Sets, Object Limits, Record Types, Related Look-up Fields, Search Layouts, List View Button Layouts, Navigation Rules, Triggers, Object Access, and Validation Rules. The central pane is titled 'Details' and contains sections for 'Fields & Relationships' (with a note: '0 fields. Sort by Field Label'), 'Description' (containing 'API Name: student__c' and 'Caption: student'), and 'Status Reports' (empty). The right side of the screen displays standard object metadata fields such as 'Type', 'Last Modified', 'Last Viewed', 'Document Status', 'Destroyed', 'Key Uri', and 'Standard Salesforce.com Help Available'.

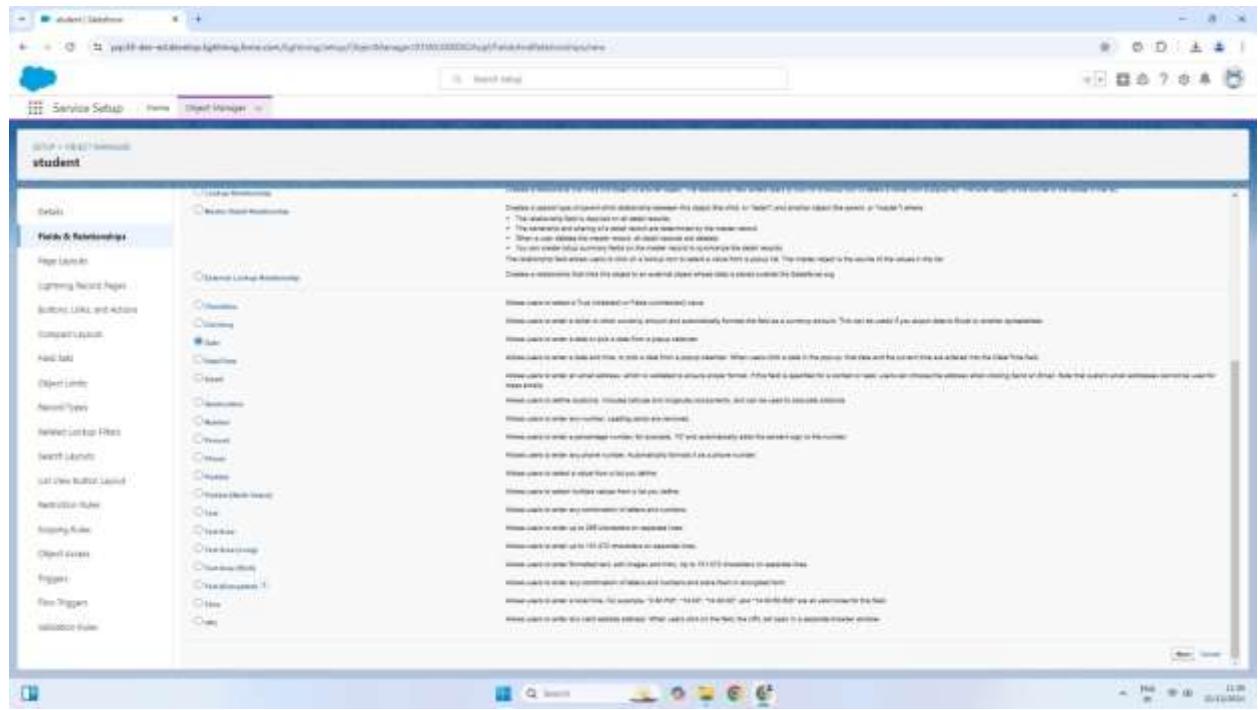
Click on New for new fields(create the minimum 5 to 6 fields)

This screenshot shows the same Salesforce Object Manager interface as the previous one, but with the 'Fields & Relationships' tab selected in the sidebar. The central pane now displays a table titled 'Fields & Relationships' with the following data:

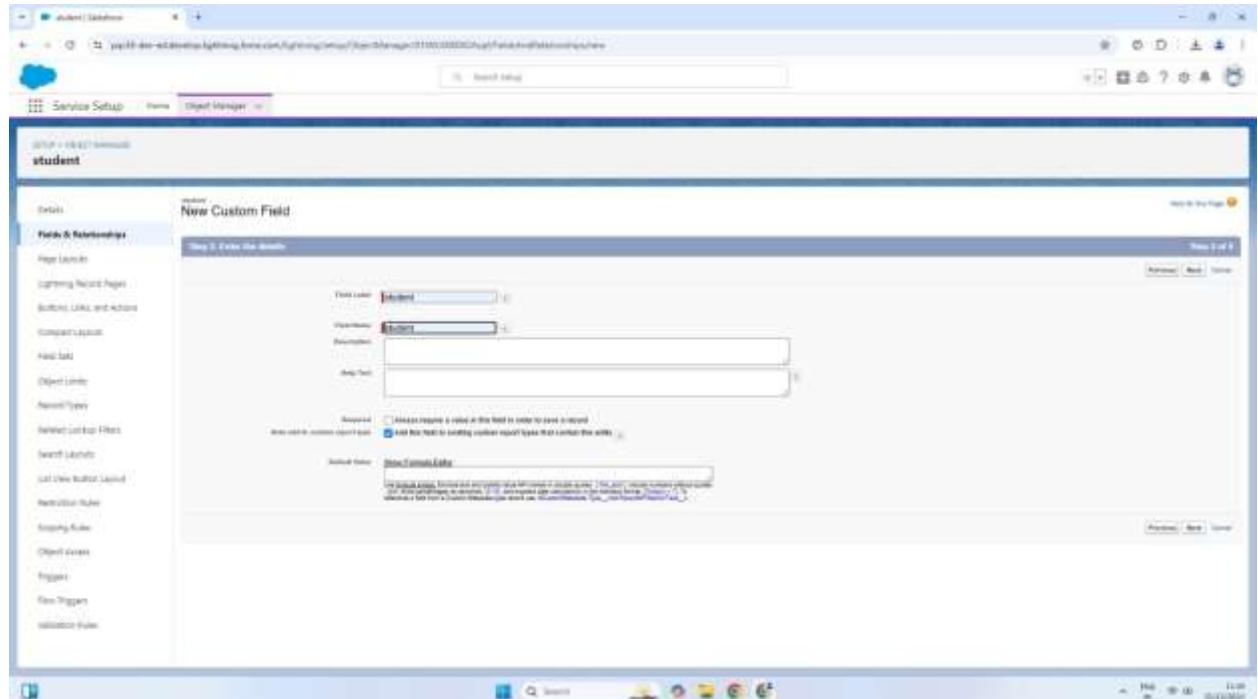
FIELD NAME	DATA TYPE	CONTROLLER FIELD	FORMAT
Created By	Connected		
Last Modified By	Connected		
Owner	Connected		
Student Name	Name		

The rest of the interface remains consistent with the first screenshot, including the top navigation bar and the list of other configuration tabs on the left.

Click the data Type



Give the fields name then click on next -> next -> next

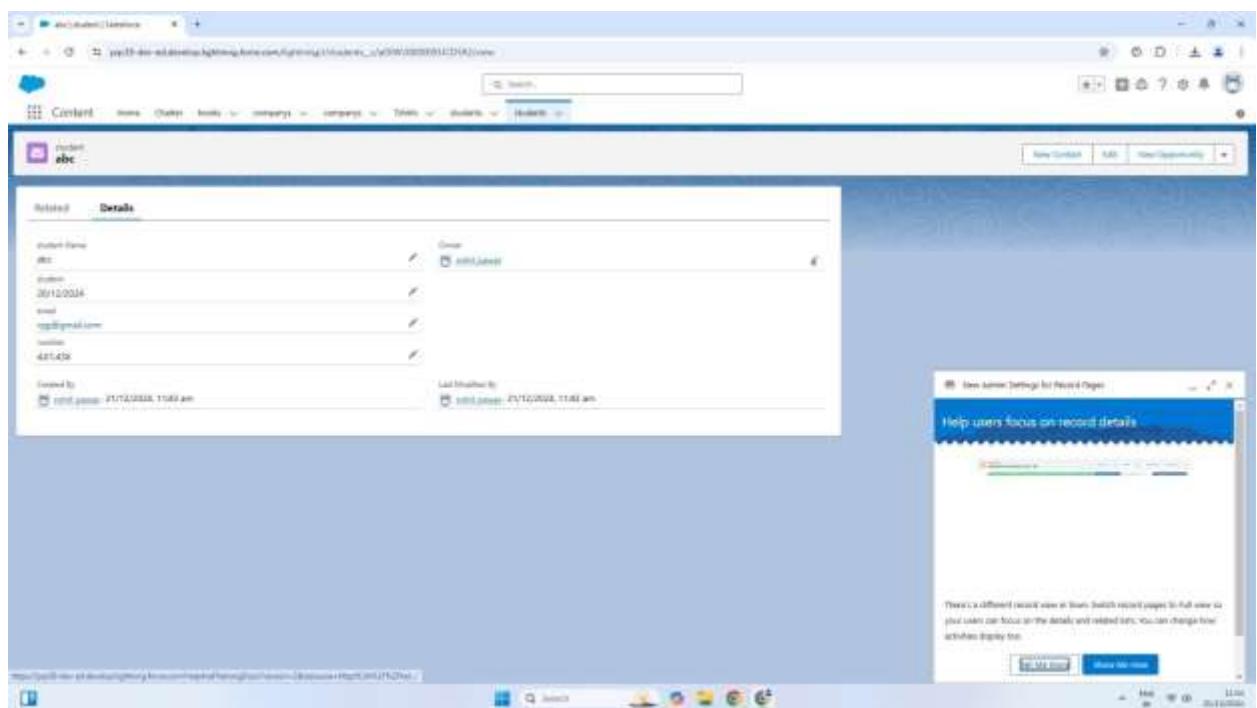
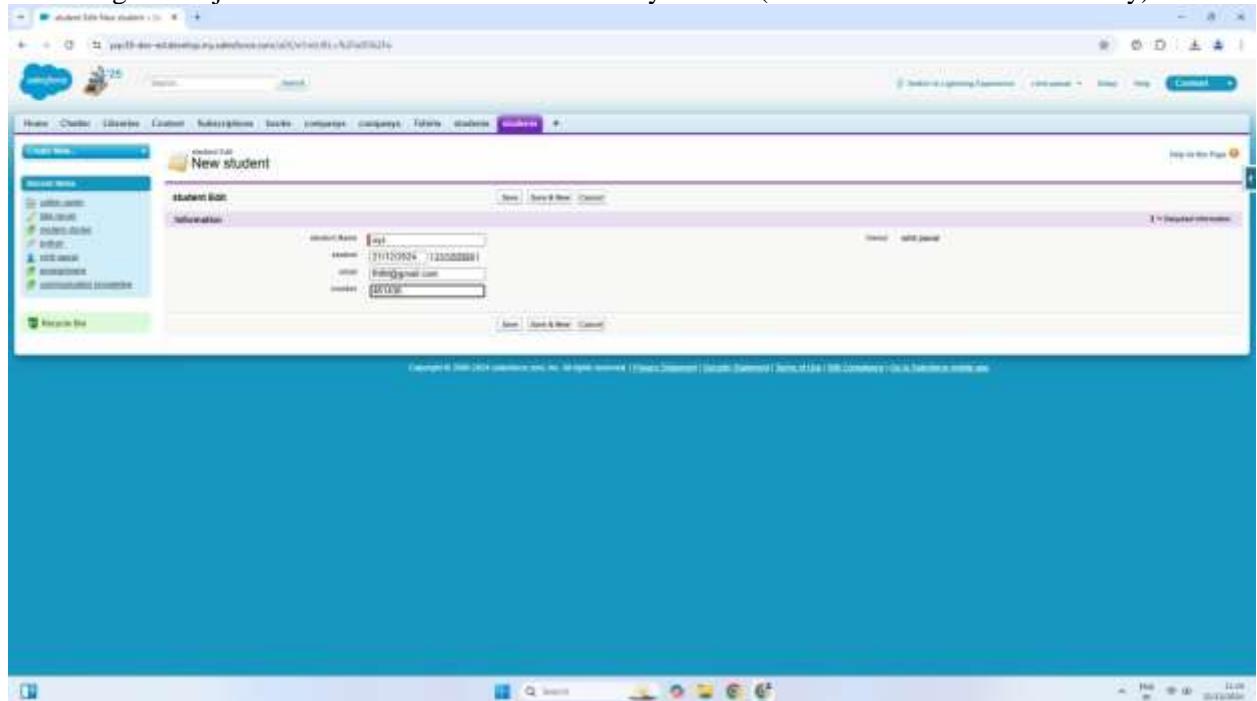


The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes 'Service Setup', 'Home', and 'Object Manager'. The main title is 'student'. On the left, there's a sidebar with various tabs like 'Details', 'Fields & Relationships', 'Page Layouts', etc. The 'Fields & Relationships' tab is selected. It displays a table with columns: FIELD LABEL, FIELD NAME, DATA TYPE, and COMPLICATED FIELD. The table lists several fields: 'class_id' (FIELD NAME: class_id, DATA TYPE: ContactId), 'email' (FIELD NAME: email, DATA TYPE: Email), 'lastmodifiedby' (FIELD NAME: lastmodifiedby, DATA TYPE: LastModifiedBy), 'name' (FIELD NAME: name, DATA TYPE: Name), and 'student_id' (FIELD NAME: student_id, DATA TYPE: Date). To the right of the table, there are two sections: 'Fields' and 'Relationships', each containing a list of objects like 'Case', 'Contact', 'Lead', etc.

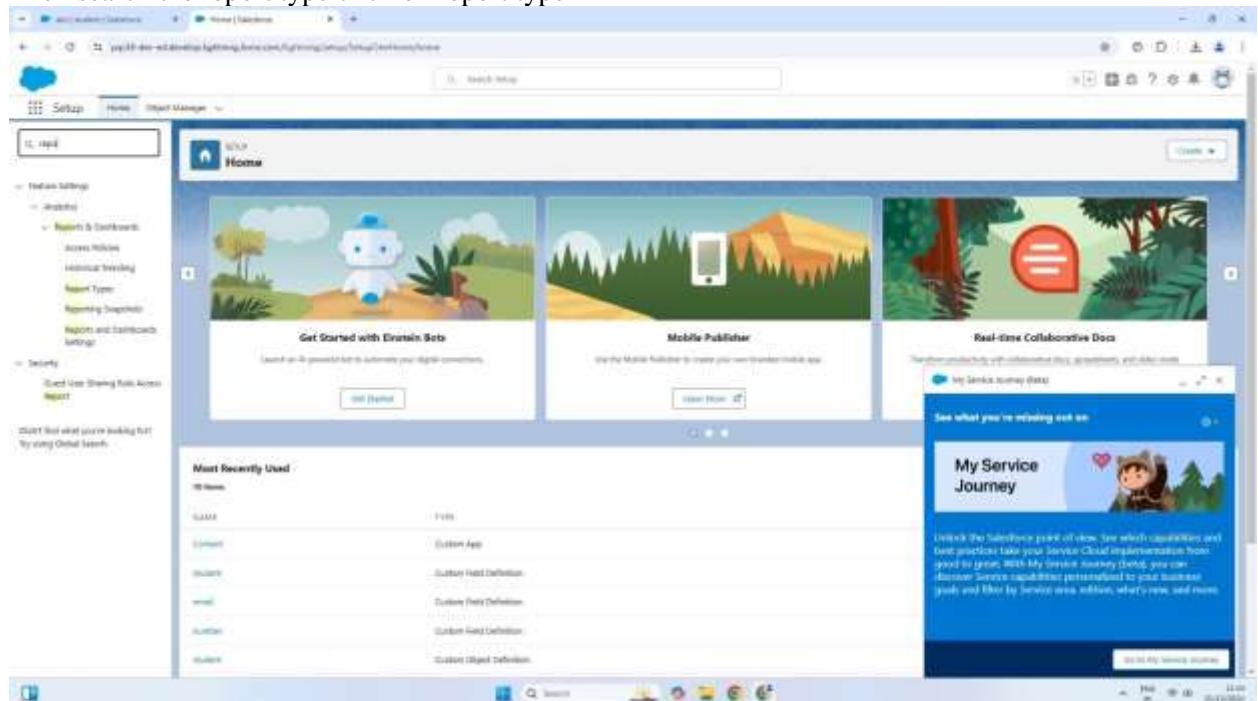
Go on Switch to saleforce classic

This screenshot shows the same Salesforce Object Manager interface as the previous one, but it is in classic view. The 'Fields & Relationships' table is identical to the one above. However, the 'Relationships' section on the right is now displayed in a separate modal window. This modal lists various relationships: 'Case', 'Contact', 'Lead', 'Opportunity', 'Product2', 'Task', 'User', and 'Account'. Each relationship is preceded by a small icon and a 'View Details' link.

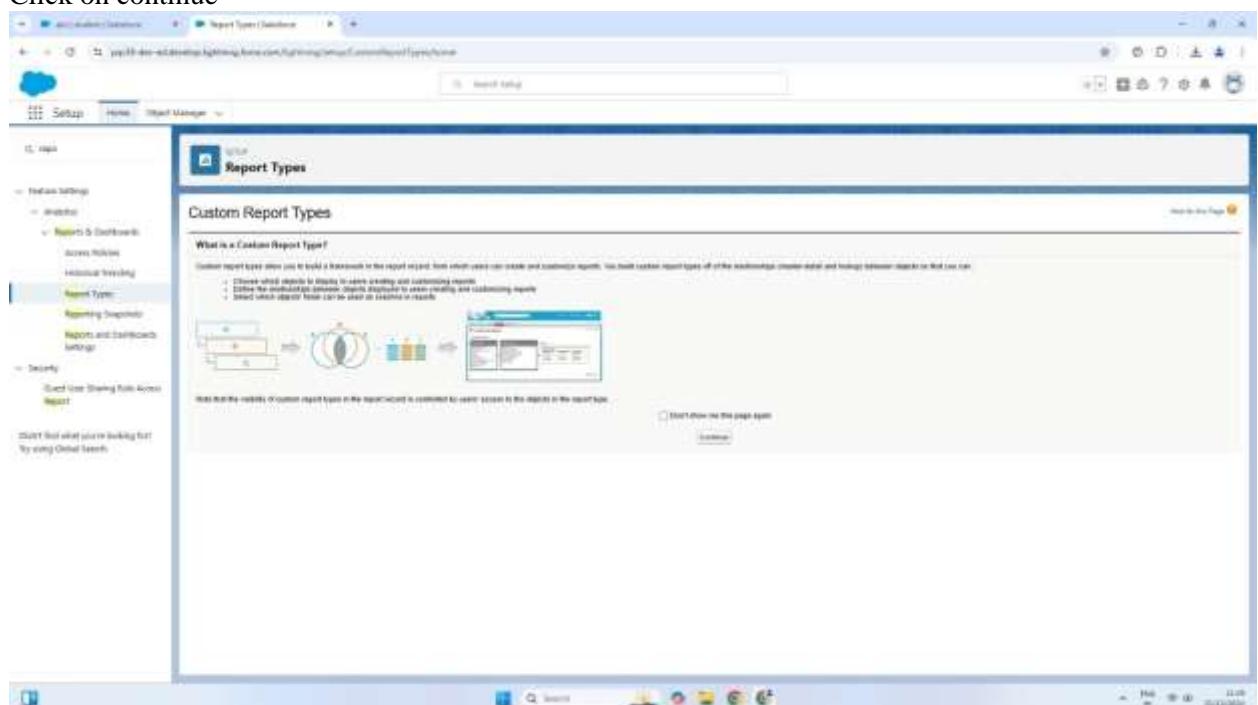
Find the given object name click on then enter the entry of data (enter the minimum 5 to 6 entry)



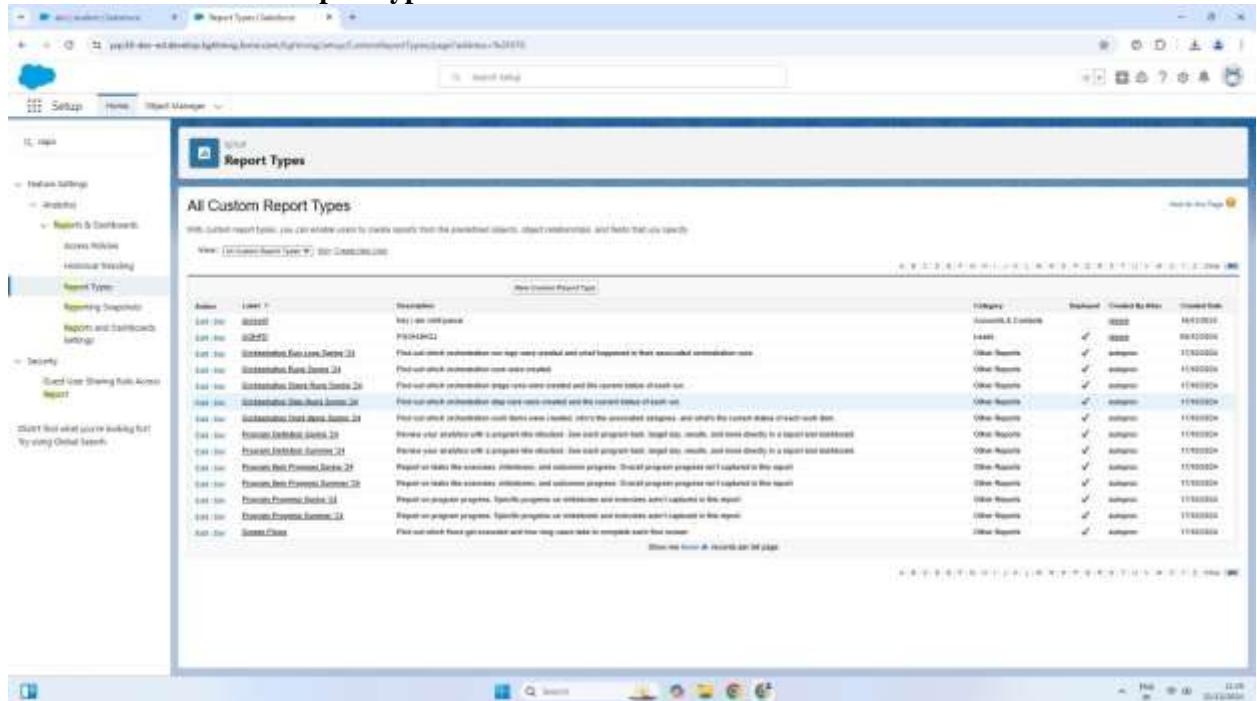
Then search the report type click on report type



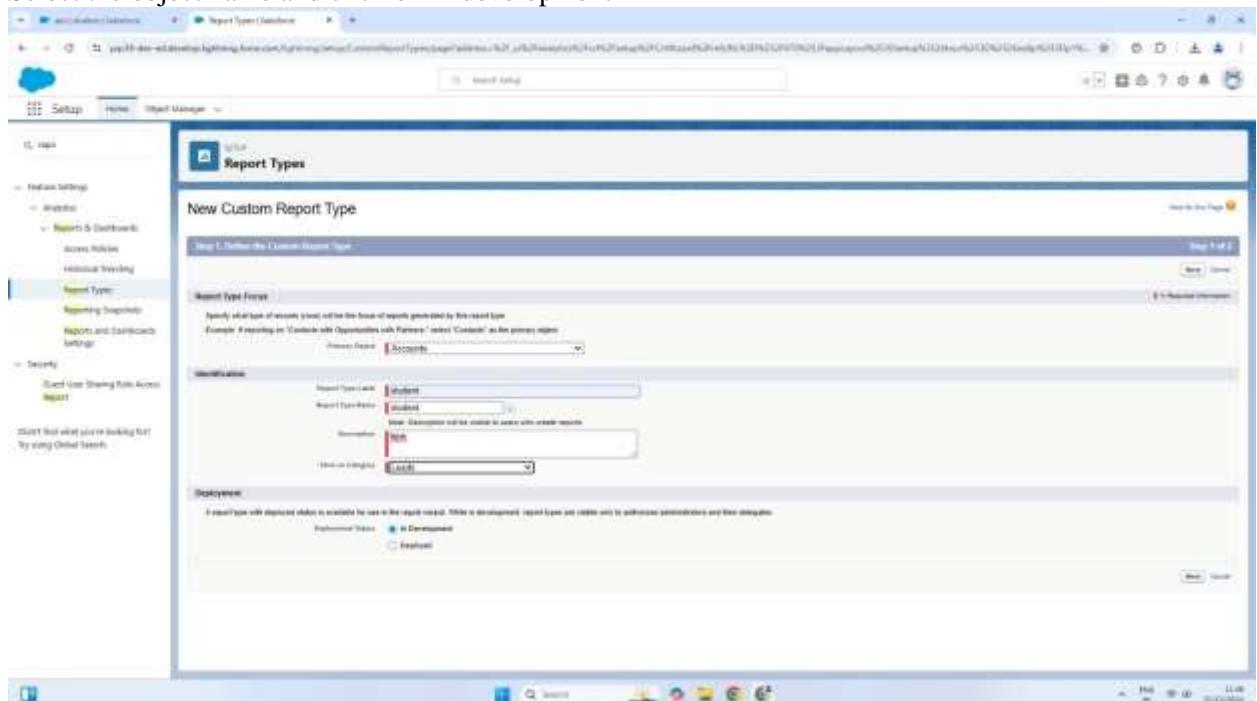
Click on continue



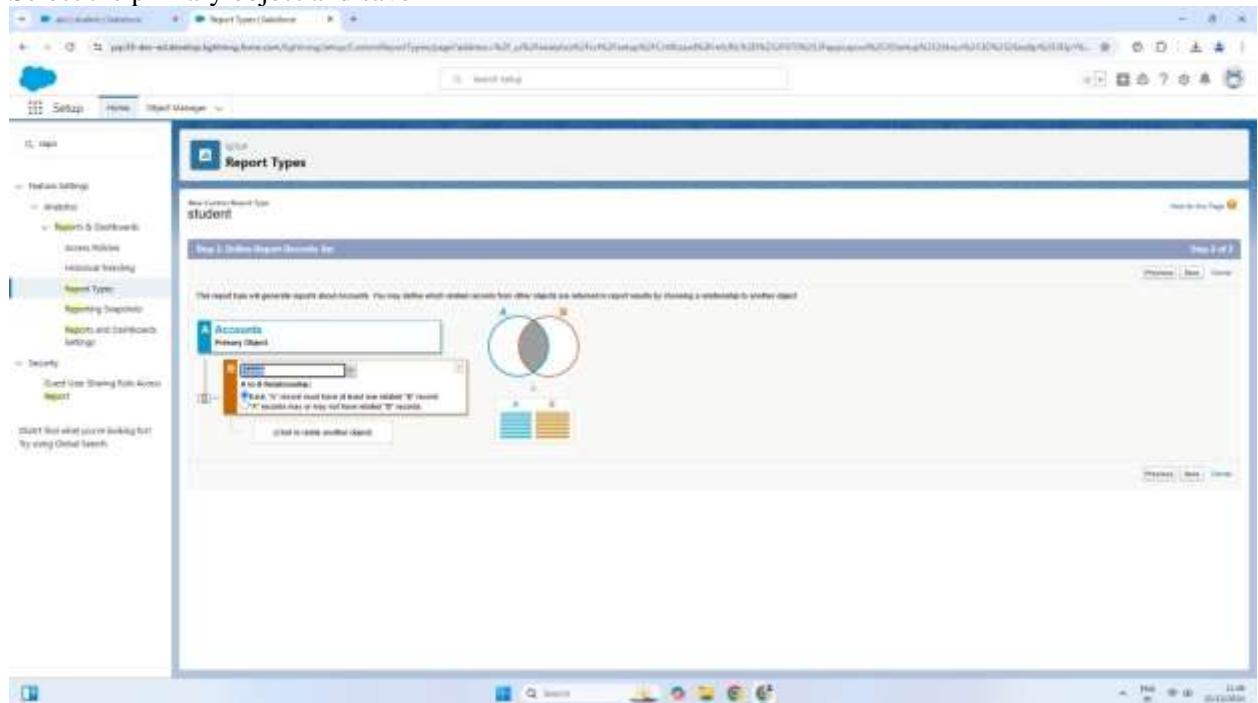
Click on New custome report type



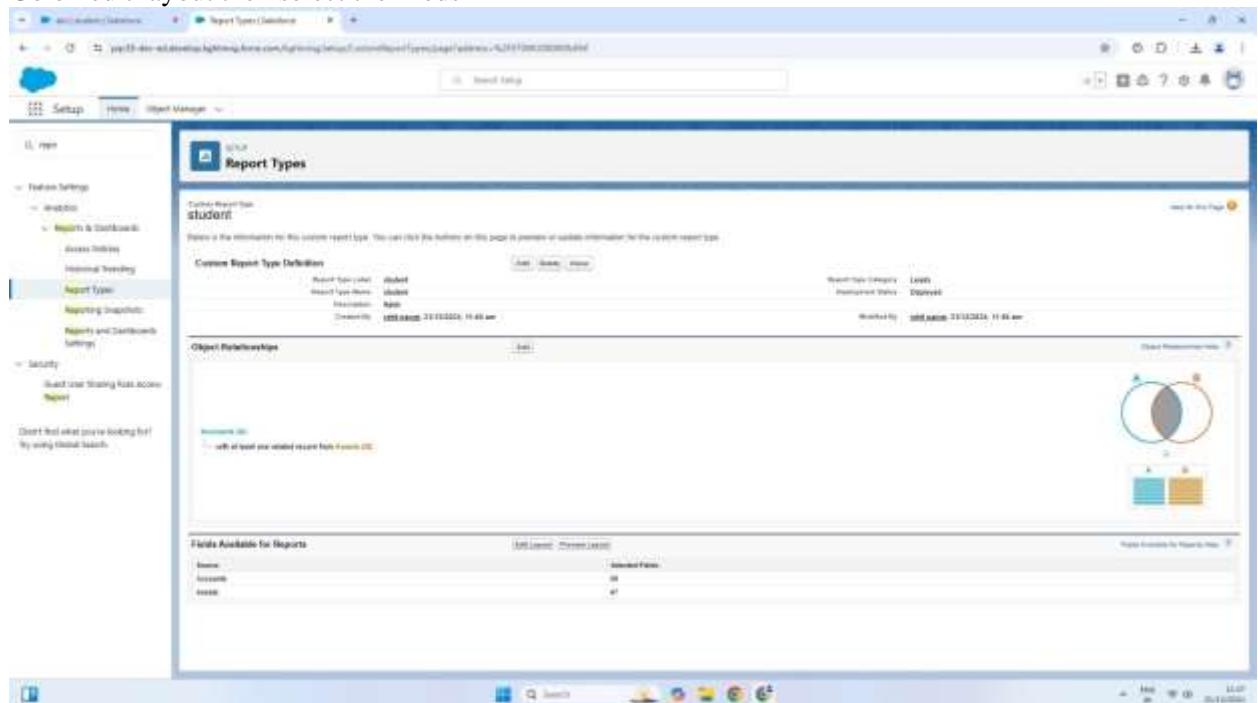
Select the object name and click on in development



Select the primary object and save



Go on edit layout then select the filesds

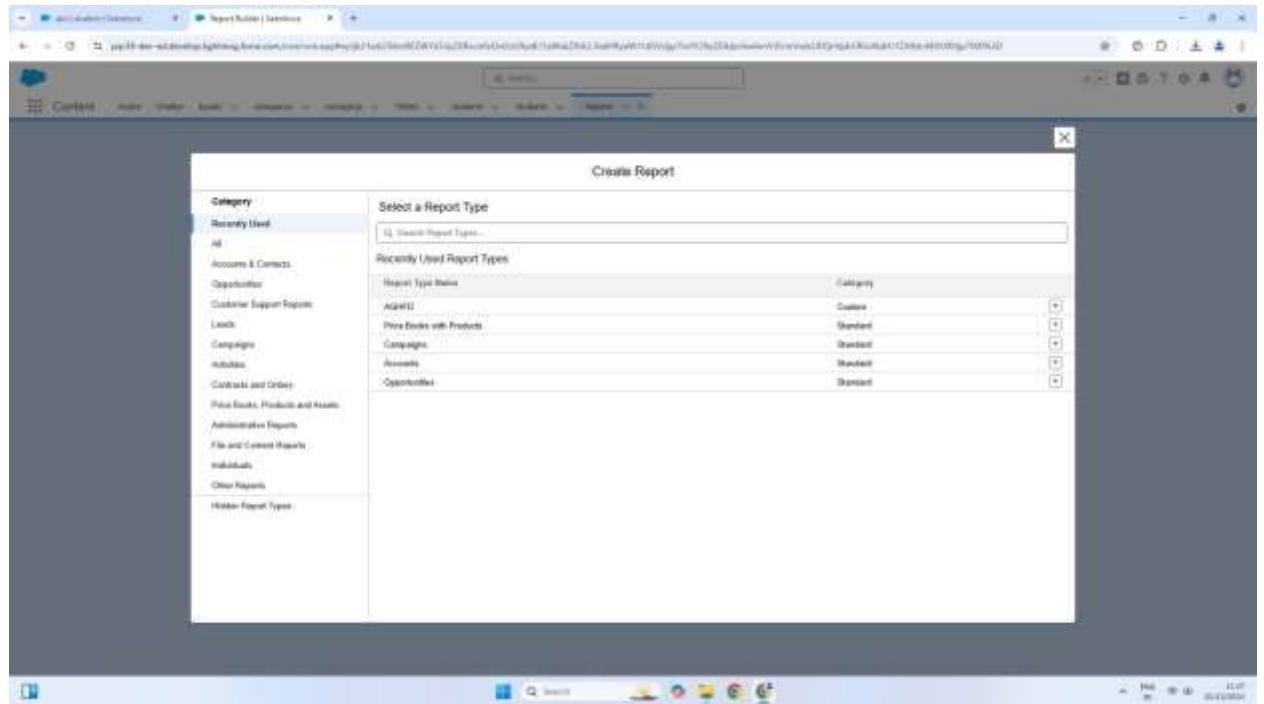


Then search report and click on new report and find the custome report

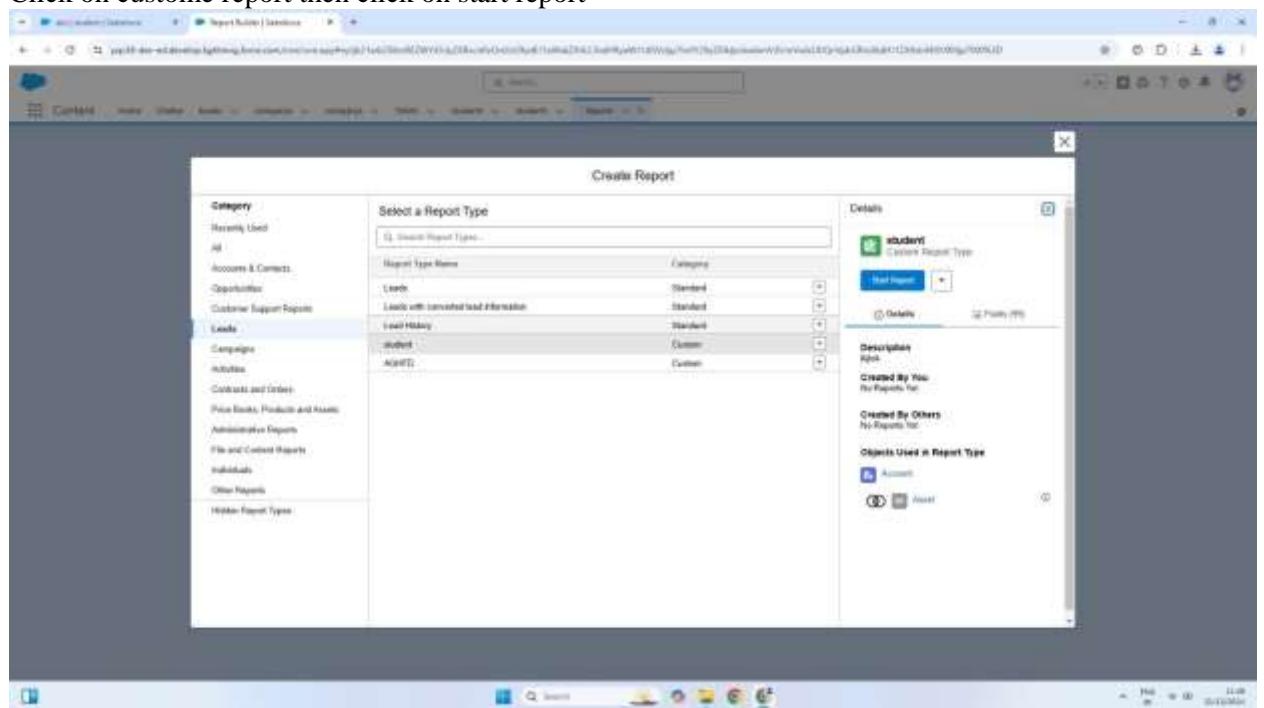
The screenshot shows the 'Report Types' page in the Salesforce Setup interface. The left sidebar includes 'App Launchers', 'Home', 'Object Manager', 'Reports', and 'Setup'. Under 'Reports', there are links for 'Reporting Snapshots', 'Reports and Dashboards', and 'Report'. A message at the top says 'Start by selecting what you're looking for! By using Quick Search...'. The main content area is titled 'Report Types' and contains a 'Report Type Definition' section with fields like 'Report Type Label' (selected), 'Report Type Name' (selected), 'Description' (Blank), and 'Created By' (John Doe, 2018-08-21 10:00:11 AM). Below this is an 'Object Relationships' section with a diagram showing relationships between 'Account' and 'Contact'. At the bottom is a 'Fields Available for Reports' section with fields 'Name', 'Account', and 'Contact'.

The screenshot shows the 'Recent Reports' page in the Salesforce Home interface. The left sidebar includes 'Content', 'Home', 'Activity', 'Body', 'Company', 'Competitor', 'Tasks', 'Students', 'Students', 'Reports', and 'Recent'. The main content area displays a table of recent reports with columns for 'Report Name', 'Description', 'Folder', 'Created By', 'Created On', and 'Submitted'. The table lists five reports: 'New Account Report', 'New Product Report', 'New Lead Report', 'New Opportunity Report', and 'New Contact Report'. The 'Created On' column shows dates from 2018-08-21 to 2018-08-20.

Report Name	Description	Folder	Created By	Created On	Submitted
New Account Report		Mobile Reports	John Doe	2018-08-21 10:11 pm	
New Product Report		Mobile Reports	John Doe	2018-08-21 10:09 pm	
New Lead Report		Mobile Reports	John Doe	2018-08-21 10:09 pm	
New Opportunity Report		Mobile Reports	John Doe	2018-08-21 10:09 pm	
New Contact Report		Mobile Reports	John Doe	2018-08-20 10:09 am	



Click on custome report then click on start report



Then click on group row and columns and add the row columns

The screenshot shows the Microsoft Report Builder interface. On the left, there's a sidebar with sections for 'Fields' (including 'Account' and 'Student'), 'Tables' (with 'Student'), and 'Calculated Fields'. In the main area, there's a preview pane with a message: 'Processing a limited number of records. Run the report to see everything.' Below this are three dropdown filters: 'Account ID', 'Account Number', and 'Account Owner, Full Name'. At the bottom of the preview pane, there are buttons for 'Run', 'Save & Run', and 'Close'. The status bar at the bottom right shows the date and time: 'Tue, Oct 10, 2017 11:48 00:00:00'. The browser address bar contains a long URL starting with 'http://.../ReportServer...'. The title bar says 'Report Builder | Standard'.

Save the report

The screenshot shows the 'Save Report' dialog box in the center of the screen. It has fields for 'Report Name' (set to 'New student Report'), 'Report Group Name' (empty), 'Report Description' (empty), and 'Folder' (set to 'Private Reports'). There are 'Cancel' and 'Save' buttons at the bottom. The background shows the same 'New Student Report' configuration screen as the previous image. The browser address bar and status bar are also visible.

Search the dashboard

The screenshot shows the Salesforce Report Builder interface. In the top navigation bar, there is a search bar with the placeholder "Search..." and a dropdown menu labeled "Report Builder". Below the search bar, the page title is "Report Builder | Dashboards". On the left side, there is a sidebar titled "App Launcher" which contains a search bar and a list of apps: "Home", "Activity", "Tasks", "Companies", "Employees", "Totals", "Students", "Students", "Report Builder", and "Dashboards". The main content area has a heading "Search results for 'Dashboard'" and a sub-heading "Showing a limited number of records. Use the report to see everything". There is a "Search" button at the bottom of this section. To the right, there is a "Save & Run" button, a "New" button, and a "Close" button. At the very bottom of the page, there is a standard browser toolbar with icons for back, forward, search, and other navigation functions.

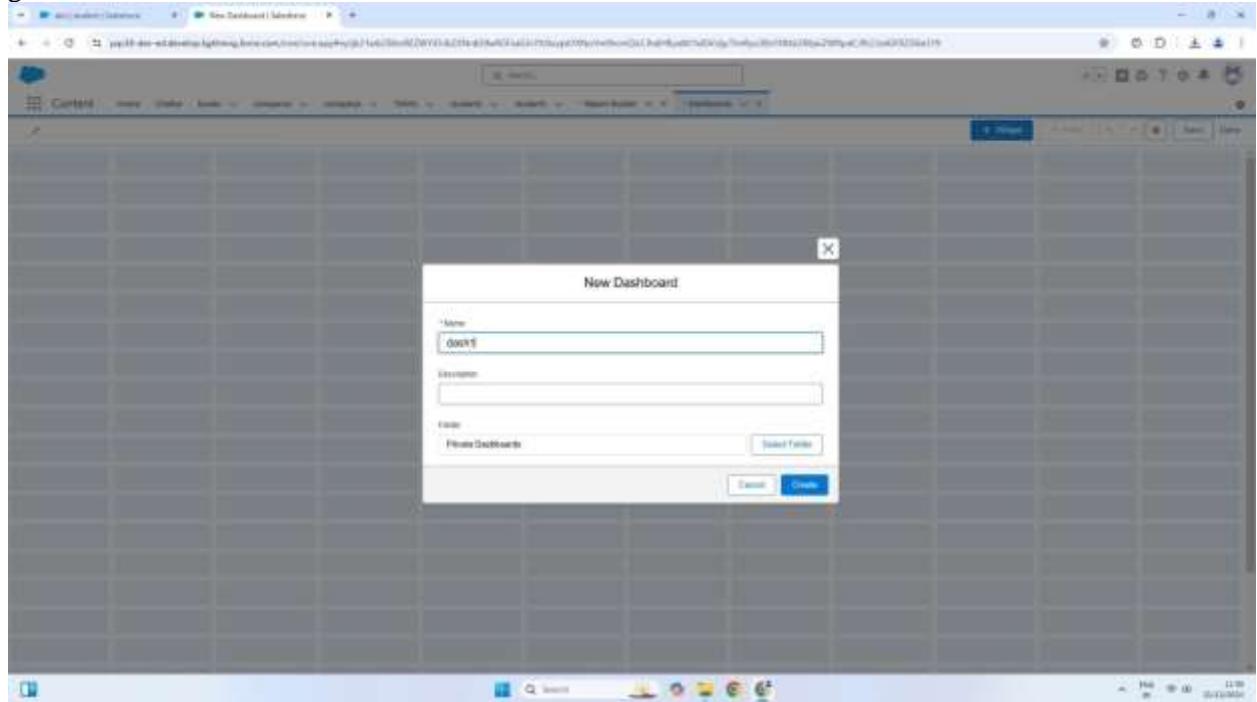
Click on the new dashboard

The screenshot shows the Salesforce Dashboards list view. The top navigation bar includes a search bar and a "Dashboards" tab. The main content area displays a table of dashboards. The columns are: "Dashboard Name", "Description", "Folder", "Created By", "Created On", and "Selected". The table contains several rows of data:

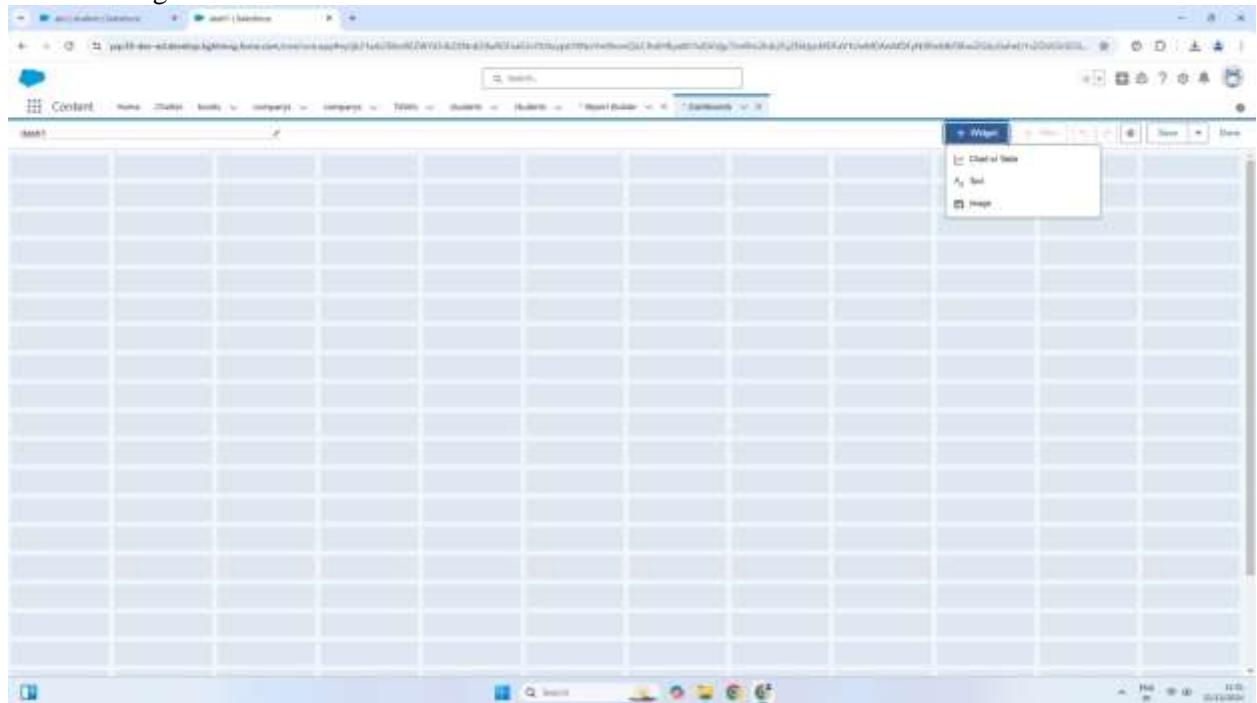
Dashboard Name	Description	Folder	Created By	Created On	Selected
Home	Home Dashboard	Home	sfadmin	9/12/2014 1:22:56 pm	
Home	Home Dashboard	Home	sfadmin	9/12/2014 1:23:06 pm	
college	Home Dashboard	Home	sfadmin	9/11/2014 11:09 am	
campus	Home Dashboard	Home	sfadmin	9/11/2014 10:29 am	
sfadmin	New page	Home	sfadmin	9/11/2014 10:29 am	
sfadmin	New page	Home	sfadmin	9/11/2014 10:29 am	
sfadmin	New page	Home	sfadmin	9/11/2014 10:29 am	

At the bottom of the page, there is a standard browser toolbar with icons for back, forward, search, and other navigation functions.

give the name of dashboard then click on create



Click in widget and click on chart or table



Then select the custome report then add different chart types

